ELIAS

Mathematics

3rd primary – First term

2024

Mr. Ahmed El Asi

Port Said - 01097509532



Index

ELIAs

Revision

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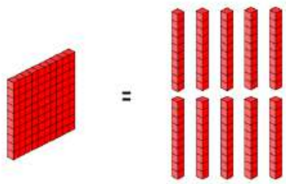
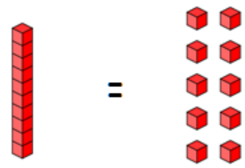
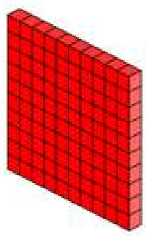
Hundred chart

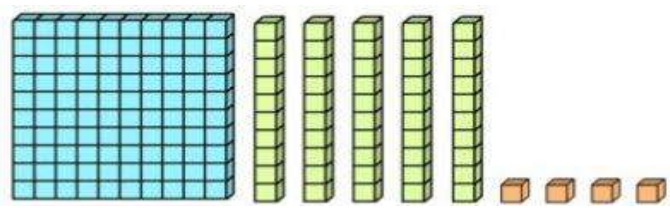
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Numbers

Ones		From 11 to 19		Tens	
1	one	11	eleven	10	ten
2	two	12	twelve	20	twenty
3	three	13	thirteen	30	thirty
4	four	14	fourteen	40	forty
5	five	15	fifteen	50	fifty
6	six	16	sixteen	60	sixty
7	seven	17	seventeen	70	seventy
8	eight	18	eighteen	80	eighty
9	nine	19	nineteen	90	ninety

- Count by ones and tens up to 100. [ ]
- Read and write numbers up to 100. [ ]

Hundreds	Tens	Ones
 1 hundred = 10 tens	 1 ten = 10 ones	 1 Ones
 Hundreds	 Tens	 Ones

Example	 154		
Number	1	5	4
Place value	Hundreds	Tens	Ones
Value	100	50	4

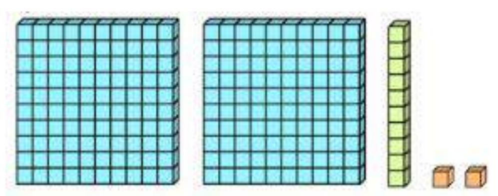
Read as

one hundred fifty-four

Write as

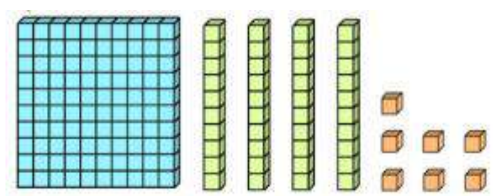
Standard form:	154
Expanded form:	100 + 50 + 4
Place-value form:	1 hundreds, 5 tens and 4 ones
Word form:	One hundred fifty-four

Complete:



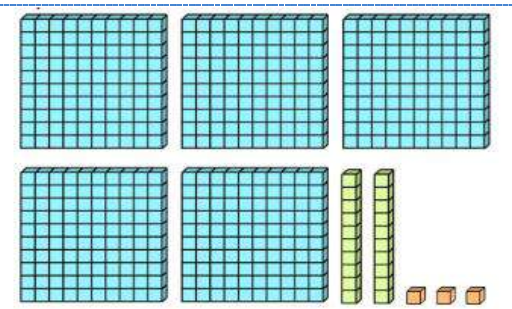
hundreds	tens	ones
....	....	....

Number
....



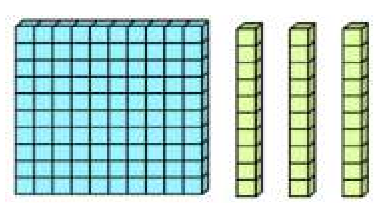
hundreds	tens	ones
....	....	....

Number
....



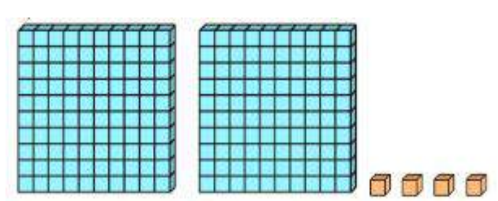
hundreds	tens	ones
....	....	....

Number
....



hundreds	tens	ones
....	....	....

Number
....



hundreds	tens	ones
....	....	....

Number
....

- Write how many hundreds, tens and ones in the chart [ ]

Complete:

Number	Hundreds	Tens	Ones
528	…………………	…………………	…………………
106	…………………	…………………	…………………
892	…………………	…………………	…………………
390	…………………	…………………	…………………
673	…………………	…………………	…………………
75	…………………	…………………	…………………
633	…………………	…………………	…………………
600	…………………	…………………	…………………
821	…………………	…………………	…………………

Write the place value and the value of each underlined digit:

Number	Place value (hundreds – tens – ones)	Value
5̲62	………………………………………………………	………………………
186̲	………………………………………………………	………………………
35̲4	………………………………………………………	………………………
8̲72	………………………………………………………	………………………
90̲3	………………………………………………………	………………………
34̲0	………………………………………………………	………………………
6̲8	………………………………………………………	………………………
7̲00	………………………………………………………	………………………
6̲50	………………………………………………………	………………………
49̲3	………………………………………………………	………………………

Complete:

Standard form	Expanded form	Place-value form	Word form
672	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
371	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
145	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
639	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
420	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
212	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
348	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
503	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
900	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
113	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
201	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
550	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
812	.... + ... +.......	.... hundreds, ... Tens, ... ones	....

- Convert a 3-digit number from standard form to other forms. [ ]

Write the number in standard form:

400 + 30 + 5	_ _ _	200 + 80 + 3	_ _ _
300 + 40 + 8	_ _ _	700 + 10 + 4	_ _ _
600 + 50	_ _ _	800 + 30	_ _ _
100 + 7	_ _ _	500 + 2	_ _ _
40 + 2 + 300	_ _ _	700 + 5 + 60	_ _ _
3 + 50 + 400	_ _ _	30 + 800	_ _ _
3 Hundreds, 5 tens , 6 ones	_ _ _	7 Hundreds, 4 tens , 5 ones	_ _ _
1 Hundreds, 6 tens , 2 ones	_ _ _	9 Hundreds, 3 tens , 6 ones	_ _ _
4 Hundreds, 5 tens	_ _ _	6 Hundreds, 8 tens	_ _ _
1 Hundreds, 6 ones	_ _ _	7 Hundreds, 9 ones	_ _ _
4 tens, 6 hundreds, 3 ones	_ _ _	8 ones, 5 hundreds, 2 ones	_ _ _
7 ones, 3 tens, 1 hundreds	_ _ _	2 hundreds, 5 ones, 3 tens	_ _ _
Three hundred forty-five	_ _ _	Six hundred twenty-three	_ _ _
Two hundred sixty-one	_ _ _	Nine hundred fifteen	_ _ _
Five hundred thirty	_ _ _	Four hundred eighty	_ _ _
One hundred three	_ _ _	Eight hundred seven	_ _ _

- Write a 3-digit number in standard form. [ ]

Complete:

Standard form	Expanded form	Place-value form	Word form
....	700 + 80 + 2	.... hundreds, ... Tens, ... ones	....
294	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
....	.... + ... +.......	1 hundreds, 6 Tens, 3 ones	....
....	.... + ... +.......	.... hundreds, ... Tens, ... ones	two hundred fifty-six
....	300 + 1	.... hundreds, ... Tens, ... ones	....
....	.... + ... +.......	3 hundreds, 5 Tens, 5 ones	....
....	.... + ... +.......	.... hundreds, ... Tens, ... ones	three hundred seventy
211	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
702	.... + ... +.......	.... hundreds, ... Tens, ... ones	....
....	.... + ... +.......	.... hundreds, ... Tens, ... ones	five hundred thirteen
....	.... + ... +.......	5 hundreds, 1 Tens, 6 ones	....
....	400 + 30 + 8	.... hundreds, ... Tens, ... ones	....
120	.... + ... +.......	.... hundreds, ... Tens, ... ones	....

- Write a 3-dgit number in different forms. [ ]



Complete:

1	2	....	4	5	6	....	8	9	10
11	....	13	14	15	....	17	18	19	20
....	22	23	....	25	26	....	28	....	30
31	....	33	34	....	36	37	....	39	40
41	42	....	....	45	46	47	48	....	50
51	5	53	54	....	56	....	58	59	....
61	....	63	64	....	66	67	....	69	70
71	72	73	....	75	76	....	78	....	80
....	82	83	....	85	86	87	....	89	90
91	92	....	94	95	....	97	98	99	100
101	....	103	....	105	106	....	108	109	110
111	112	....	114	....	116	117	....	119	120
121	122	123	....	125	....	127	128	....	130
131	....	133	134	....	136	....	138	139	....
141	142	....	144	145	....	147	....	149	150
....	152	153	....	155	156	157	158	....	160
161	....	163	164	....	166	....	168	169	170
171	172	....	174	175	....	177	....	179	180
181	....	183	184	....	186	187	....	189	190
....	192	193	....	195	196	....	198	199	200
201	....	....	....	....	....	....	....	....	210
211	....	....	....	....	....	....	....	....	220
221	....	....	....	....	....	....	....	....	230

- Write the missing number in the chart. [ ]

Compare by using > , < or =

465		289	76		356
156		124	980		98
56		342	931		942
781		952	135		135
351		351	310		301
71		761	445		554
641		708	890		879
141		455	381		96
700		831	915		715
673		672	634		232
252		86	498		498
417		417	362		824
750		607	625		831
776		788	169		167
890		187	793		874
306		390	375		573

Write the numbers in ascending order: (from the least to the greatest)

352	637	471	564

The order: ………… , ………… , ………… , …………

561	478	432	711

The order: ………… , ………… , ………… , …………

505	50	605	750

The order: ………… , ………… , ………… , …………

772	840	214	934	393

The order: ………… , ………… , ………… , ………… , …………

671	430	75	437	528

The order: ………… , ………… , ………… , ………… , …………

525	352	425	552	655

The order: ………… , ………… , ………… , ………… , …………

three hundred forty-two	763	300 + 50 + 6

The order: ………… , ………… , …………

532	Five hundred sixty-three	500 + 20 + 3

The order: ………… , ………… , …………

400 +60 + 7	5 hundreds , 3 tens , 6 ones	369

The order: ………… , ………… , …………

- Arrange 3-digit numbers in ascending order. [ ]

Write the numbers in descending order: (from the greatest to the least)

247	561	123	673

The order: ………… , ………… , ………… , …………

538	342	567	429

The order: ………… , ………… , ………… , …………

408	80	750	616

The order: ………… , ………… , ………… , …………

512	387	139	490	605

The order: ………… , ………… , ………… , ………… , …………

458	170	315	461	222

The order: ………… , ………… , ………… , ………… , …………

210	537	99	673	910

The order: ………… , ………… , ………… , ………… , …………

three hundred sixty-three	243	500 + 30 + 4

The order: ………… , ………… , …………

682	Four hundred nine	200 + 30 + 7

The order: ………… , ………… , …………

900 +40 + 1	6 hundreds , 4 tens , 4 ones	703

The order: ………… , ………… , …………

- Arrange a 3-digit numbers in descending order. [ ]

Write the greatest and the least number that formed from the given digits:

1 7 3

The greatest: ....

The least: ....

7 0 1

The greatest: ....

The least: ....

9 7 6

The greatest: ....

The least: ....

3 1 5

The greatest: ....

The least: ....

6 1 5

The greatest: ....

The least: ....

8 5 0

The greatest: ....

The least: ....

9 1 9

The greatest: ....

The least: ....

3 1 6

The greatest: ....

The least: ....

5 0 6

The greatest: ....

The least: ....

1 3 0

The greatest: ....

The least: ....

4 9 2

The greatest: ....

The least: ....

1 8 1

The greatest: ....

The least: ....



Find the sum:

61 + 32 ……………	91 + 35 ……………	36 + 57 ……………	45 + 9 ……………
59 + 25 ……………	43 + 15 ……………	72 + 84 ……………	36 + 57 ……………
54 + 7 ……………	78 + 16 ……………	373 + 558 ……………	597 + 248 ……………
606 + 382 ……………	436 + 54 ……………	486 + 176 ……………	162 + 357 ……………
364 + 167 ……………	500 + 311 ……………	322 + 454 ……………	329 + 76 ……………

- Add 3-digit numbers. [ ]

729 + 198	199 + 639	109 + 5	363 + 264 ....
137 + 425	411 + 493	35 + 511	736 + 149 ....
530 + 180	685 + 305	111 + 99	312 + 543 ....
700 + 100	155 + 349	36 + 55	23 + 152 ....
199 + 17	120 + 506	627 + 89	453 + 367 ....

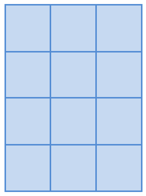
Find the difference:

81 − 60 = ………………	63 − 23 = ………………	56 − 5 = ………………	88 − 43 = ………………
30 − 10 = ………………	53 − 26 = ………………	97 − 25 = ………………	64 − 29 = ………………
51 − 9 = ………………	60 − 25 = ………………	774 − 548 = ………………	695 − 248 = ………………
801 − 382 = ………………	336 − 64 = ………………	900 − 275 = ………………	684 − 536 = ………………
876 − 380 = ………………	605 − 170 = ………………	455 − 175 = ………………	630 − 479 = ………………

6 0 8 − 4 2 5	4 7 2 − 3 9 6	6 2 1 − 3 8 0	9 1 4 − 1 6 ....
2 5 3 − 1 0 5	7 2 3 − 2 1 1	9 9 5 − 7 6 7	3 2 1 − 9 ....
8 5 7 − 6 5 1	5 7 5 − 4 8 5	9 9 0 − 7 6 2	7 0 0 − 1 7 5 ....
8 6 5 − 3 2 1	7 8 3 − 8 6	5 6 4 − 3 7 2	6 4 6 − 1 2 2 ....
9 1 6 − 5 9 2	4 0 0 − 2 0 0	5 0 3 − 3 0 9	9 4 4 − 5 8 6 ....

- **Subtract 3-digit numbers.** [ ]

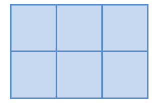
Write addition equation and count rows and columns:



3 + 3 + 3 + 3 = 12

Rows: 4 columns: 3

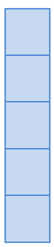
4 By 3



.... = ...

Rows: .... columns: ....

.... By ....



.... = ...

Rows: .... columns: ....

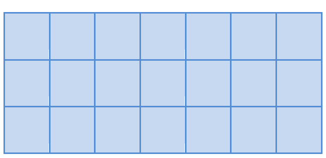
.... By ....



.... = ...

Rows: .... columns: ....

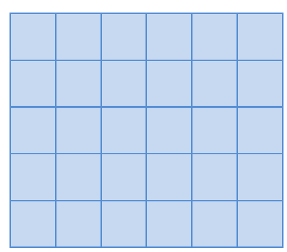
.... By ....



.... = ...

Rows: .... columns: ....

.... By ....

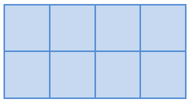


.... = ...

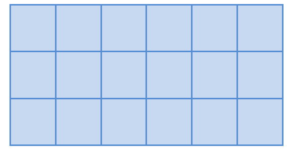
Rows: .... columns: ....

.... By ....

- Use repeated addition to find the total number of objects in arrays. [ ]



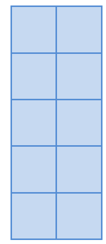
.... = ...
Rows: .... columns: ....
.... By ....



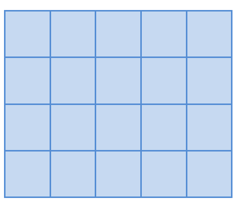
.... = ...
Rows: .... columns: ....
.... By ....



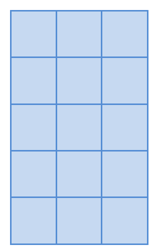
.... = ...
Rows: .... columns: ....
.... By ....



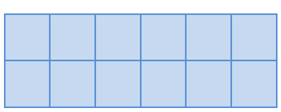
.... = ...
Rows: .... columns: ....
.... By ....



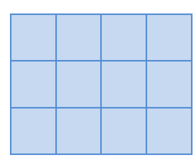
.... = ...
Rows: .... columns: ....
.... By ....



.... = ...
Rows: .... columns: ....
.... By ....



.... = ...
Rows: .... columns: ....
.... By ....



.... = ...
Rows: .... columns: ....
.... By ....

Create an array:

3 by 4	2 by 5
5 by 6	3 by 1
6 by 4	3 by 7

- Create an array. [ ]

5 by 3

2 by 6

4 by 4

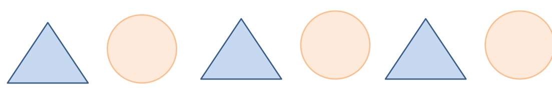
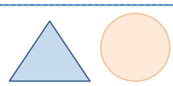
3 by 8

5 by 7

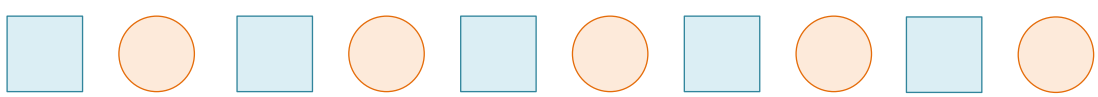
1 by 4

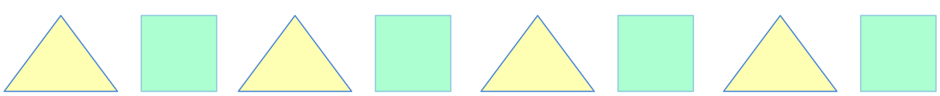
Pattern

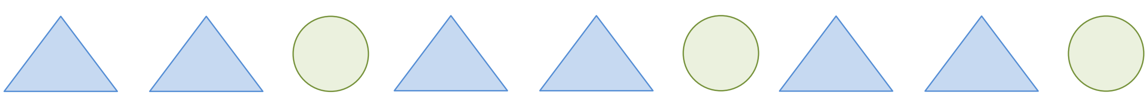
A pattern is a sequence of numbers, symbols or figures arranged according to a certain system or rule.

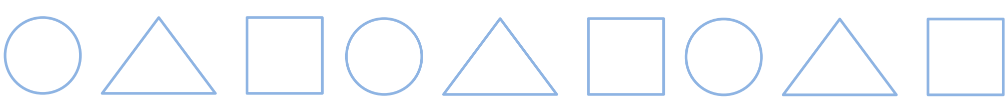
Visual pattern	Number pattern
Is an ordered set of objects that have repeated part called "pattern unit" **Example:** 	Is a list of numbers that follow a certain rule called "pattern rule" **Example:** 2 , 4 , 6 , 8 , 10
Pattern unit: 	**Pattern rule:** + 2

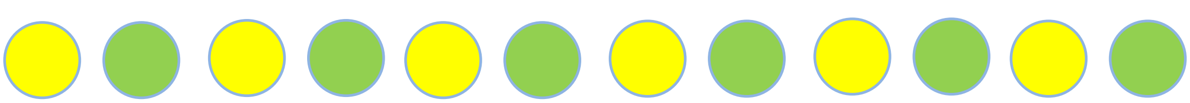
Circle the pattern unit:







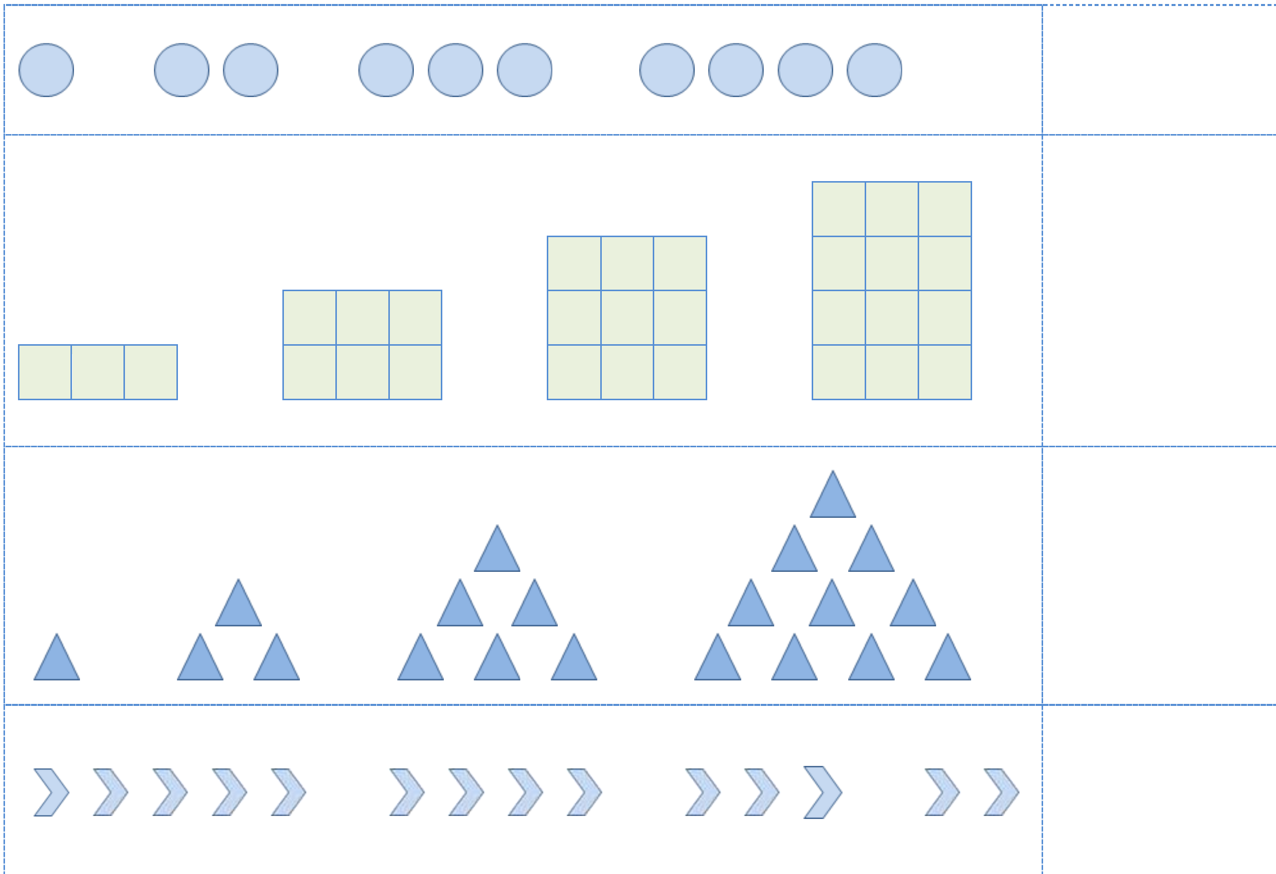




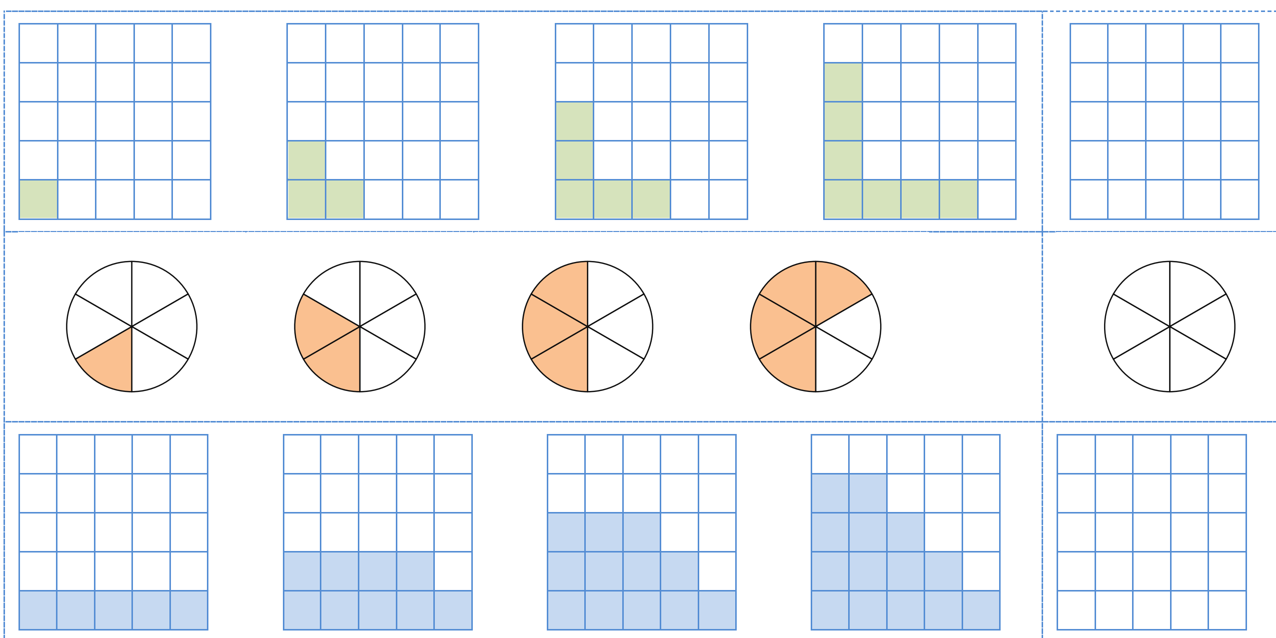


- Identify visual and number patterns. [ ]

Draw what comes next in each pattern:



Color to complete pattern:



Complete according to the pattern rule:

+ 1	0 , 1 , ... , ... , ... , ... , ... , ... , ... , ...
+ 2	0 , 2 , ... , ... , ... , ... , ... , ... , ... , ...
+ 3	0 , 3 , ... , ... , ... , ... , ... , ... , ... , ...
+ 4	0 , 4 , ... , ... , ... , ... , ... , ... , ... , ...
+ 5	0 , 5 , ... , ... , ... , ... , ... , ... , ... , ...
+ 6	0 , 6 , ... , ... , ... , ... , ... , ... , ... , ...
+ 7	0 , 7 , ... , ... , ... , ... , ... , ... , ... , ...
+ 8	0 , 8 , ... , ... , ... , ... , ... , ... , ... , ...
+ 9	0 , 9 , ... , ... , ... , ... , ... , ... , ... , ...
+ 10	0 , 10 , ... , ... , ... , ... , ... , ... , ... , ...

– 1	9 , ... , ... , ... , ... , ... , ... , ... , ...
– 2	26 , ... , ... , ... , ... , ... , ... , ... , ...
– 3	39 , ... , ... , ... , ... , ... , ... , ... , ...
– 4	48 , ... , ... , ... , ... , ... , ... , ... , ...
– 5	45 , ... , ... , ... , ... , ... , ... , ... , ...

Discover the pattern rule and write the missing numbers:

	Rule
20 , 22 , 24 , ... , ... , ...	....
83 , 73 , 63 , ... , ... , ...	....
15 , 20 , 25 , ... , ... , ...	....
59 , 56 , 53 , ... , ... , ...	....
12 , 15 , 18 , ... , ... , ...	....

- Write the next elements in a pattern. [ ]

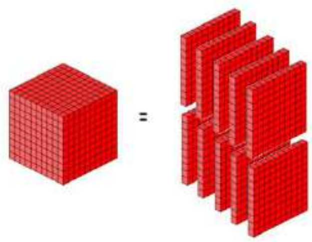
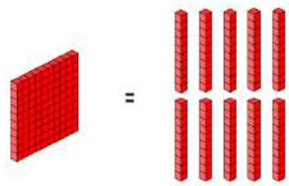
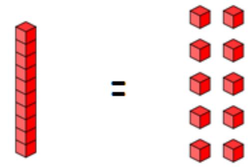
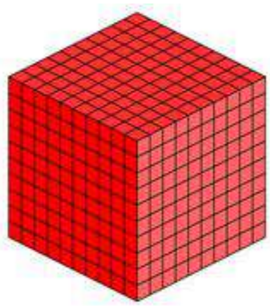
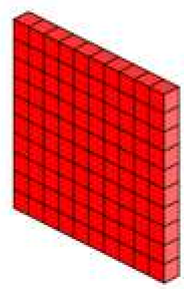
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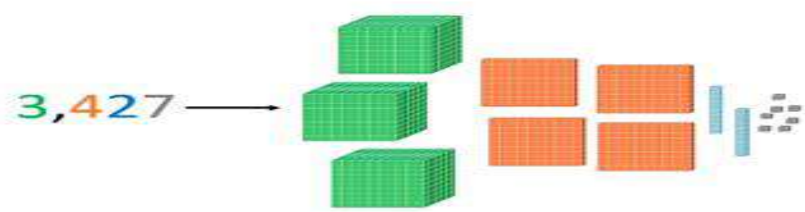
Chapter 1

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Thousands

Thousands	Hundreds	Tens	Ones
 1 thousand = 10 hundreds	 1 hundred = 10 tens	 1 ten = 10 ones	 1 Ones
 Thousands	 Hundreds	 Tens	 Ones

Example				
Number	3	4	2	7
Place value	Thousands	Hundreds	Tens	Ones
Value	3,000	400	20	7

Read as

Three thousand, four hundred twenty-seven

Write as

Standard form:	3,427
Expanded form:	3,000 + 400 + 20 + 7
Place-value form:	3 thousands, 1 hundreds, 5 tens and 4 ones
Word form:	Three thousand, four hundred twenty-seven

- Read and write 4-digit numbers in different forms. [ ]

Complete:

Number	Thousands	Hundreds	Tens	Ones
2,528				
7,106				
3,892				
5,390				
673				
4,005				
9,633				
6,000				
821				

Write the place value and the value of each underlined digit:

Number	Place value (thousands – hundreds – tens – ones)	Value
4,562		
3,186		
5,354		
7,072		
2,903		
9,340		
8,068		
1,700		

- Understand that the value of a digit can change based on its place value. [ ]

Complete:

Standard form	Expanded form	Place-value form	Word form
3,672	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
1,371	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
2,045	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
7,639	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
8,420	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
9,212	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
1,348	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
5,003	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
6,000	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
4,113	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
3,201	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
5,500	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
8,812	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....

- Convert a 4-digit number from standard form to other forms. [ ]

Complete:

Standard form	Expanded form	Place-value form	Word form
....	4000 + 700 + 80 + 2	..... Thousands, ... hundreds, ... Tens, ... ones	....
2,094	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
....	.... +....... + ... +.......	7 Thousands, 1 hundreds, 1 Tens, 3 ones	....
....	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	Nine thousand, two hundred fifty
....	3,000 + 1	..... Thousands, ... hundreds, ... Tens, ... ones	....
....	.... +....... + ... +.......	4 Thousands, 3 hundreds, 5 Tens, 5 ones	....
....	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	Five thousand, six hundred seventy-one
2,211	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
4,702	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	....
....	.... +....... + ... +.......	..... Thousands, ... hundreds, ... Tens, ... ones	Two thousand, forty
....	.... +....... + ... +.......	5 Thousands, 0 hundreds, 1 Tens, 6 ones	....
....	7 + 400 + 30 + 8,000	..... Thousands, ... hundreds, ... Tens, ... ones	....
....	4,000 + 2 + 100	..... Thousands, ... hundreds, ... Tens, ... ones	....

- Convert the numbers up to thousands place from any form to other. [ ]

Ten thousands and hundred thousands

Example	563,249					
Number	5	6	3	2	4	9
Place value	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
Value	500,000	60,000	3,000	200	40	9

Read as

five hundred sixty-three thousand, two hundred forty-nine

Write as

Standard form:	563,249
Expanded form:	500,000 + 60,000 + 3,000 + 200 + 40 + 9
Place-value form:	5 hundred thousand, 6 ten thousand, 3 thousands, 1 hundreds, 5 tens and 4 ones
Word form:	five hundred sixty-three thousand, two hundred forty-nine

Complete:

Number	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
265,341						
189,360						
23,546						
108,203						
5,234						
340,450						
555,001						
78,230						
65,043						

- Read and Write numbers up to the hundred thousands place in different forms. [ ]

Circle the correct digit in the number according to its place:

Tens	3,684	Hundred thousands	412,675
Thousands	72,103	Ones	20,953
Ten thousands	283,022	Hundreds	7,164

Choose the value of the underlined digit:

4<u>6</u>3,258 (6 ; 60 ; 600 ; 6,000 ; 60,000 ; 600,000)

53,<u>4</u>06 (4 ; 40 ; 400 ; 4,000 ; 40,000 ; 400,000)

4,5<u>8</u>2 (8 ; 80 ; 800 ; 8,000 ; 80,000 ; 800,000)

<u>3</u>85,537 (3 ; 30 ; 300 ; 3,000 ; 30,000 ; 300,000)

Write the place value and the value of each underlined digit:

Number	Place value (hundred thousands – ten thousands – thousands – hundreds – tens – ones)	Value
<u>5</u>3,897		
<u>4</u>,009		
<u>3</u>81,202		
2<u>4</u>,111		
73,<u>0</u>05		
209,8<u>7</u>6		
87<u>0</u>,314		

Complete:

Standard form	Expanded form	Word form
46,935	....	....
761,321	....	....
139,506	....	....
10,390	....	....
17,555	....	....
100,500	....	....
205,663	....	....
29,949	....	....
33,700	....	....
5,316	....	....
93,317	....	....
715,120	....	....
5,045	....	....

- Convert numbers up to the hundred thousands place from standard form to different forms. [ ]

Complete:

Standard form	Expanded form	Word form
167,325	....	....
....	700,000 + 40,000 + 2,000 + 300 + 50 + 2	....
....	....	Three hundred forty-eight thousand, four hundred thirty two
....	600,000 + 30,000 + 3,000 + 500 + 7	....
....	900,000 + 3,000 + 400 + 20 + 6	....
36,128	....	....
....	....	Four thousand, six hundred
....	500,000 + 100 + 50 + 3	....
29,304	....	....
....	....	Fifty-six thousand, five hundred three
....	100,000 + 20,000 + 4,000 + 500 + 70	....
....	80,000 + 4,000 + 40 + 5	....
....	....	Nine hundred thirty-three thousand, seven hundred twenty

- Convert numbers up to the hundred thousands place from any form to other forms. [ ]

Write in standard form:

30,000 + 9,000 + 400 + 10 + 5 = ...

1,000 + 300 + 40 + 8 = ...

500,000 + 30,000 +2,000 + 8 = ...

400 + 70,000 + 3,000 + 20 + 1 = ...

50,000 + 40 + 200,000 + 800 + 9,000 + 8 = ...

5 + 20,000 + 6,000 + 80 + 700 = ...

3,000 + 20 + 9 = ...

800,000 + 100 + 20 + 1 = ...

10,000 + 3,000 + 200 = ...

6,000 + 400 + 32 = ...

56,000 + 20 + 500 + 9= ....

7 + 40 + 1,200 = ...

3 thousands, 5 hundreds, 6 tens and 2 ones = ...

8 hundreds, 1 thousands, 1 tens, 6 ones = ...

523 thousands, 9 hundreds, 4 tens and 6 ones = ...

7 thousands, 1 hundreds, 25 ones = ...

Forty-six thousand, eight hundred thirty-two = ...

Three hundred seventy-two thousand, six hundred ninety one= ....

Seven thousand, twenty-four = ...

Fifty thousand, five hundred forty-three = ...

- Convert numbers up to the hundred thousands place from different forms to standard form. [ ]

Compare by using > , < or =

16,781		4,952
3,252		4,966
9,761		9,761
63,641		54,708
266,141		328,455
873		1,372
23,750		6,007
106,700		99,831
27,324		5,678
111,347		98,008
42,315		42,315
25,231		25,631
55,000		50,600
1,459		1,067
5,112		17,341
592		5,092

5,476		5,788
7,890		9,187
27,006		25,390
35,931		35,942
478,112		476,112
963,310		963,301
2,445		2,554
512,390		513,879
72,590		70,590
29,912		29,917
6,509		7,509
12,130		122,135
70,200		76,140
456,001		56,999
21,277		31,277
5,823		5,823

Compare by using > , < or =

46,831		7,000 + 300 + 40 + 6
3 thousands, 0 hundreds, 1 tens, 4 ones		32,249
5,671		fifty thousand, four hundred seventy-one
700 + 30 + 3		7 hundreds, 3 tens, 3 ones
600,000 + 20,000 + 1,000+ 200 + 1		621,210
Four thousand, seven hundred forty-two		5,000 + 400 + 30 + 1
900 + 6,000 + 80 + 3		5 thousands, 6 hundreds, 3 tens, 5 ones
45,275		40,000 + 5,000 + 200 + 70 + 5
23 thousand, 405		2,345
Six hundred thousand, thirty-two		57,124
80,000 + 3,000 + 200 + 3		80,000 + 3,000 + 200 + 30
124,123		One hundred twenty-three thousand, one hundred twenty-three

- Comparing numbers up to hundred thousands place in different forms by using < , > or = [ ]

Write the numbers in ascending order: (from the least to the greatest)

653,205 | 5,234 | 72,030 | 24,996

The order is: .... , ... , ... , ...

32,761 | 65,009 | 39,167 | 42,872

The order is: .... , ... , ... , ...

558,021 | 485,369 | 558,303 | 3,099

The order is: .... , ... , ... , ...

56,761 | 28,361 | 39,167 | 73,039 | 85,783

The order is: .... , ... , ... , ... , ...

17,255 | 9,420 | 139,652 | 17,270 | 25,783

The order is: .... , ... , ... , ... , ...

231,093 | 82,000 | 309,111 | 9,515 | 81,542

The order is: .... , ... , ... , ... , ...

4,016 | four hundred sixty-one | 6,000 + 300 + 40 + 9

The order is: .... , ... , ...

eight thousand, three hundred forty | 9,000 + 500 + 30 + 3 | 13,087

The order is: .... , ... , ...

9,000 + 500 + 30 + 3 | sixteen thousand, nine hundred thirty-five | 99,533

The order is: .... , ... , ...



Write the numbers in descending order: (from the greatest to the least)

982,345	1,769	69,329	42,179

The order is: ……………. , ……………. , ……………. , …………….

82,173	6,111	11,111	87,231

The order is: ……………. , ……………. , ……………. , …………….

641,641	900,900	641,645	9,008

The order is: ……………. , ……………. , ……………. , …………….

1,672	995	7,201	23,245	221,445

The order is: ……………. , ……………. , ……………. , ……………. , …………….

19,192	19,219	192,650	184,134	26,100

The order is: ……………. , ……………. , ……………. , ……………. , …………….

523,658	32,700	411,223	32,916	8,551

The order is: ……………. , ……………. , ……………. , ……………. , …………….

5,016	seven hundred forty-two	5,000 + 700 + 9

The order is: ……………. , ……………. , …………….

six thousand, five hundred thirty-one	3,000 + 10 + 1	75,900

The order is: ……………. , ……………. , …………….

9,000 + 500 + 30 + 3	sixteen thousand, nine hundred thirty-five	99,533

The order is: ……………. , ……………. , …………….

- Order numbers up to hundred thousands place in descending order. [ ]

Greatest and least 4-digit number

The digits: 0 – 1 – 2 – 3 – 4 – 5 – 6 – 7 – 8 – 9

The greatest 4-digit number: 9,999

The least 4-digit number: 1,000

The greatest 4-different digit number: 9,876

The least 4-different digit number: 1,023

Complete:

The greatest 5-digit number is ………………………

The least 5-digit number ………………………

The greatest 5-different digit number ………………………

The least 5-different digit number ………………………

The greatest 6-digit number ………………………

The least 6-digit number ………………………

The greatest 6-different digit number ………………………

The least 6-different digit number ………………………

Write the greatest and the least number that formed from the given digits:

1 7 3 8

The greatest: ....

The least: ....

4 9 5 6 0

The greatest: ....

The least: ....

9 7 6 7

The greatest: ....

The least: ....

7 5 1 0 2 6

The greatest: ....

The least: ....

7 1 8 2 4

The greatest: ....

The least: ....

3 0 5 4

The greatest: ....

The least: ....

5 9 1 8 0

The greatest: ....

The least: ....

0 3 2 5 4

The greatest: ....

The least: ....

1 5 6 2 7 9

The greatest: ....

The least: ....

2 5 2 7 9

The greatest: ....

The least: ....

0 4 5 2 6 8

The greatest: ....

The least: ....

2 1 0 6 3 4

The greatest: ....

The least: ....

- Write the greatest and the least number formed from the given digits. [ ]

Write the place value and the value of each underlined digit:

Number	Place value (hundred thousands – ten thousands – thousands – hundreds – tens – ones)	Value
56,781		
309,662		
480,353		
100,945		
28,579		
1,650		
555,555		

Complete:

Standard form	Expanded form	Word form
46,235	....	....
5,127	....	....
307,930	....	....
....	50,000 + 4,000 + 300 + 20 + 7	....
....	700,000 + 8,000 + 400 + 50 + 2	....
....	3,000 + 900 + 6	....
....	....	Four hundred thirty two thousands, six hundred fifty-one
....	....	Ninety thousand, seven hundred sixty
....	....	One thousand, three hundred thirty-two

Compare by using > , < or =

34,562		9,768
678,325		345,981
305,625		306,625
200,310		200,301
7,451		7,000 + 400 + 50 + 1
Thirty thousand, four hundred twenty-six		200,000 + 50,000 + 3,000 + 100 + 20 + 6
40,000 + 3,000 + 200 + 5		43,250

Arrange the numbers in ascending order:

23,451	47,309	37,273	50,631	17,960

The order: .... , ... , ... , ... , ...

54,230	4,766	289,120	7,342	42,078

The order: .... , ... , ... , ... , ...

5,906	4,782	5,671	3,451	7,900

The order: .... , ... , ... , ... , ...

ELIAS

Chapter 2

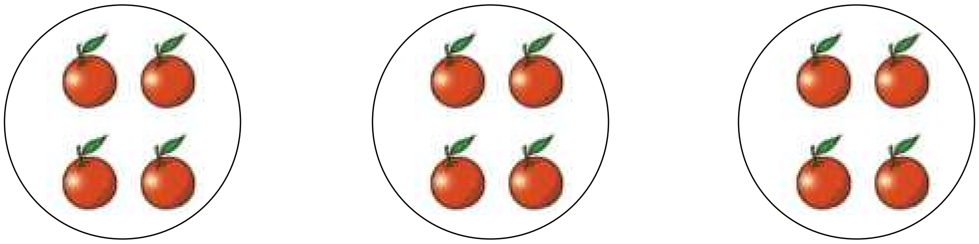
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Lesson 1 Meaning of multiplication

Meaning of multiplication



Repeated addition (+) = 4 + 4 + 4

Multiplication (×) = 3 × 4

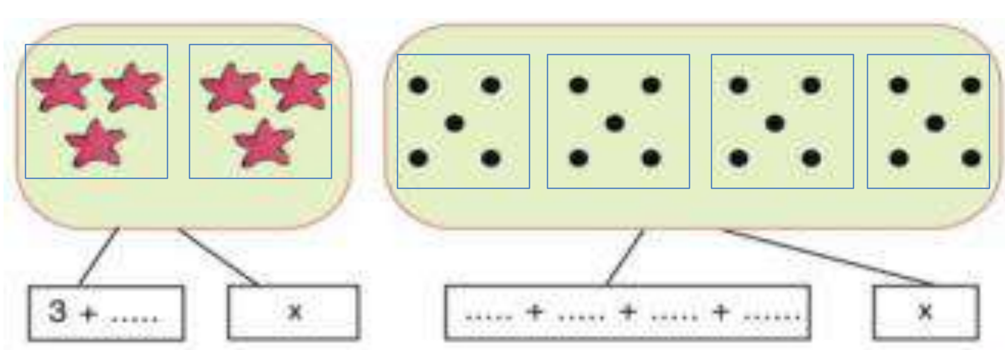
$$4 + 4 + 4 = 3 \times 4$$

3 × 4 is read as " three times four "

$$3 \times 4 = 12$$

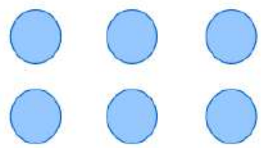
3 → factor, 4 → factor, 12 → product

Complete:



- Understand how repeated addition and multiplication equations are related. [ ]

Complete:



Rows: .... columns: ....

Repeated addition: .... + ... = ...

Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ..... + ... + ... + ... = ...

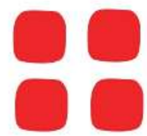
Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ..... + ... + ... = ...

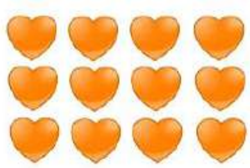
Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: .... + ... = ...

Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ...... + ... + ... = ...

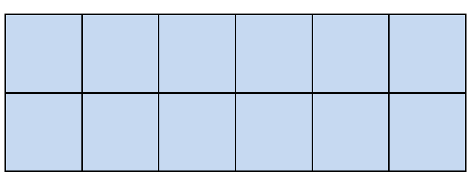
Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ..... + ... + ... + ... + ... = ...

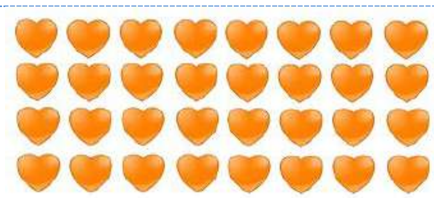
Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ...... + ... = ...

Multiplication: .... × .... = ...



Rows: .... columns: ....

Repeated addition: ...... + ... + ... + ... = ...

Multiplication: .... × .... = ...

Create an array:

3 × 5

4 × 2

2 × 6

5 × 1

5 × 1

3 × 4

- Use multiplication equation to create array. [ ]

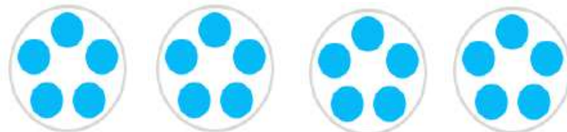
Complete:



Groups: .... in each group: ....

Repeated addition: .... + ... + ... = ...

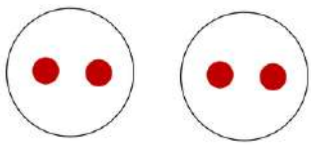
Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: ..... + ... + ... + ... = ...

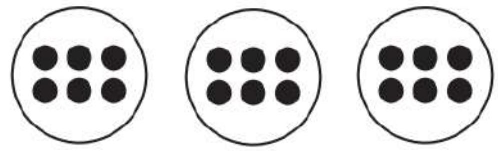
Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: ..... + ... = ...

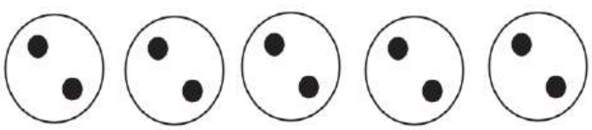
Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: .... + ... + ... = ...

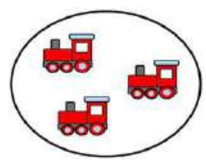
Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: ...... + ... + ... + ... + ... = ...

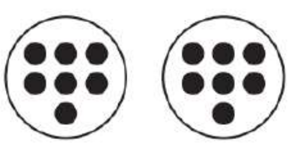
Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: .... = ...

Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: ...... + ... = ...

Multiplication: .... × .... = ...



Groups: .... in each group: ....

Repeated addition: ...... + ... + ... = ...

Multiplication: .... × .... = ...

- Use physical models to solve repeated addition and multiplication problems. [ ]

Create groups:

2 groups of 5

.... × ....

3 groups of 4

.... × ....

4 groups of 3

.... × ....

1 groups of 5

.... × ....

3 groups of 6

.... × ....

7 groups of 2

.... × ....

- Use multiplication equation to create groups. [ ]

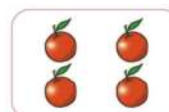
Multiplication table of 2 and 3

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 2



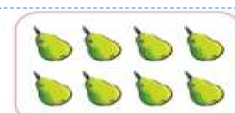
2 × 1 = 2



2 × 2 = 4



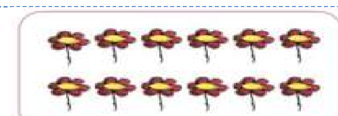
2 × 3 = 6



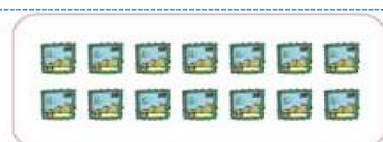
2 × 4 = 8



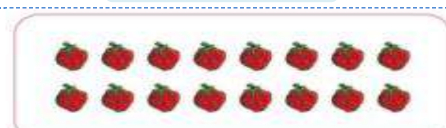
2 × 5 = 10



2 × 6 = 12



2 × 7 = 14



2 × 8 = 16



2 × 9 = 18

Multiples of 2 : 2 , 4 , 6 , 8 , 10 , 12 , 14 , 16 , 18 , ...

- Identify multiples of 2. [ ]

Complete:

$\times \begin{array}{r} 2 \\ 6 \end{array}$	$\times \begin{array}{r} 2 \\ 1 \end{array}$	$\times \begin{array}{r} 2 \\ 4 \end{array}$	$\times \begin{array}{r} 2 \\ 7 \end{array}$ ......
$\times \begin{array}{r} 2 \\ 9 \end{array}$	$\times \begin{array}{r} 2 \\ 5 \end{array}$	$\times \begin{array}{r} 2 \\ 3 \end{array}$	$\times \begin{array}{r} 2 \\ 2 \end{array}$ ......

Complete:

2 × 5 = ...	2 × 9 = ...
2 × 8 = ...	2 × 6 = ...
2 × 3 = ...	2 × 4 = ...
2 × 2 = ...	2 × 7 = ...

Join the equal results:

2 × 3 •	• 10
2 × 6 •	• 6
2 × 1 •	• 2
2 × 5 •	• 12

Circle the multiples of 2:

4 7 16 13 8 6

- Solve exercises on the multiplication table of 2. [ ]

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 3

3 × 1 = 3

3 × 2 = 6

3 × 3 = 9

3 × 4 = 12

3 × 5 = 15

3 × 6 = 18

3 × 7 = 21

3 × 8 = 24

3 × 9 = 27

Multiples of 3 : 3 , 6 , 9 , 12 , 15 , 18 , 21 , 24 , 27 , ...

Complete:

3 × 5 = ...	3 × 3 = ...	3 × 8 = ...	3 × 6 = ...
3 × 1 = ...	3 × 2 = ...	3 × 4 = ...	2 × 7 = ...

Complete:

3 × 4 = ...	3 × 3 = ...
3 × 8 = ...	3 × 6 = ...
3 × 5 = ...	3 × 9 = ...
3 × 7 = ...	3 × 2 = ...

Join the equal results:

3 × 5 •	• 2 × 6
3 × 2 •	• 18
3 × 4 •	• 2 + 2 + 2
3 × 6 •	• 15

Circle the multiples of 3:

5 9 18 12 8 2

- Solve exercises on the multiplication table of 3. [ ]

Multiplication table of 4 and 5

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 4

4 × 1 = 4

4 × 2 = 8

4 × 3 = 12

4 × 4 = 16

4 × 5 = 20

4 × 6 = 24

4 × 7 = 28

4 × 8 = 32

4 × 9 = 36

Multiples of 4 : 4 , 8 , 12 , 16 , 20 , 24 , 28 , 32 , 36 , ...

- Identify multiples of 4. [ ]

Complete:

4 × 6	4 × 2	4 × 4	4 × 5 ......
4 × 1	4 × 7	4 × 3	4 × 9 ......

Complete:

4 × 8 = ...	4 × 6 = ...
4 × 5 = ...	4 × 7 = ...
4 × 2 = ...	4 × 3 = ...
4 × 4 = ...	4 × 1 = ...

Find the result then put (> , < or =):

4 × 5	☐	☐	☐	2 × 9
4 × 2	☐	☐	☐	10
4 × 6	☐	☐	☐	8 + 8 + 8
4 × 5	☐	☐	☐	25

Circle the multiples of 4:

6   16   12   18   28   20

- Solve exercises on the multiplication table of 4. [ ]

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 5

5 × 1 = 5

5 × 2 = 10

5 × 3 = 15

5 × 4 = 20

5 × 5 = 25

5 × 6 = 30

5 × 7 = 35

5 × 8 = 40

5 × 9 = 45

Multiples of 5 : 5 , 10 , 15 , 20 , 25 , 30 , 35 , 40 , 45 , ...

- Identify multiples of 5. [ ]

Complete:

5 × 6 = ...	5 × 3 = ...	5 × 1 = ...	5 × 5 = ...
5 × 7 = ...	5 × 9 = ...	5 × 4 = ...	5 × 8 = ...

Complete:

5 × 5 = ...	5 × 3 = ...
5 × 2 = ...	5 × 6 = ...
5 × 7 = ...	5 × 9 = ...
5 × 4 = ...	5 × 8 = ...

Find the result then put (> , < or =):

5 × 4 ☐ ☐ ☐ 4 × 5

5 × 3 ☐ ☐ ☐ 3 × 6

5 × 6 ☐ ☐ ☐ 7 + 7 + 7 + 7

5 × 2 ☐ ☐ ☐ 12

Circle the multiples of 5:

10 35 20 18 45 2

- Solve exercises on the multiplication table of 5. [ ]

Multiplication table of 6 and 7

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 6

$6 \times 1 = 6$

$6 \times 2 = 12$

$6 \times 3 = 18$

$6 \times 4 = 24$

$6 \times 5 = 32$

$6 \times 6 = 36$

$6 \times 7 = 42$

$6 \times 8 = 48$

$6 \times 9 = 54$

Multiples of 6 : 6 , 12 , 18 , 24 , 32 , 36 , 42 , 48 , 54 , ……..

- Identify multiples of 6. [ ]

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 7

$7 \times 1 = 7$

$7 \times 2 = 14$

$7 \times 3 = 21$

$7 \times 4 = 28$

$7 \times 5 = 35$

$7 \times 6 = 42$

$7 \times 7 = 49$

$7 \times 8 = 56$

$7 \times 9 = 63$

Multiples of 7 : 7 , 14 , 21 , 28 , 35 , 42 , 49 , 56 , 63 , ...

- Identify multiples of 7. [ ]

Complete:

6 × 3	7 × 2	6 × 7	7 × 9 ......
7 × 7	6 × 6	7 × 4	6 × 4 ......
7 × 6	7 × 3	6 × 2	7 × 8 ......
6 × 9	6 × 1	7 × 5	6 × 8 ......

Complete:

6 × 5 = ...	6 × 8 = ...
6 × 2 = ...	7 × 7 = ...
7 × 1 = ...	6 × 5 = ...
6 × 9 = ...	7 × 4 = ...
7 × 3 = ...	6 × 3 = ...
6 × 6 = ...	7 × 8 = ...
7 × 6 = ...	6 × 7 = ...

- Solve exercises on the multiplication table of 6 and 7. [ ]

Lesson 5 Multiplication table of 8 and 9

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 8

8 × 1 = 8

8 × 2 = 16

8 × 3 = 24

8 × 4 = 32

8 × 5 = 40

8 × 6 = 48

8 × 7 = 56

8 × 8 = 64

8 × 9 = 72

Multiples of 8 : 8 , 16 , 24 , 32 , 40 , 48 , 56 , 64 , 72 , ...

- Identify multiples of 8. [ ]

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Multiplication table of 9

9 × 1 = 9

9 × 2 = 18

9 × 3 = 27

9 × 4 = 36

9 × 5 = 45

9 × 6 = 54

9 × 7 = 63

9 × 8 = 72

9 × 9 = 81

Multiples of 9 : 9 , 18 , 27 , 36 , 45 , 54 , 63 , 72 , 81 , ...

- Identify multiples of 9. [ ]

Complete:

9 × 2 = ...	9 × 9 = ...	8 × 2 = ...	8 × 3 = ...
9 × 8 = ...	8 × 8 = ...	9 × 6 = ...	8 × 9 = ...
8 × 4 = ...	9 × 3 = ...	8 × 7 = ...	9 × 4 = ...
9 × 5 = ...	8 × 5 = ...	9 × 7 = ...	8 × 6 = ...

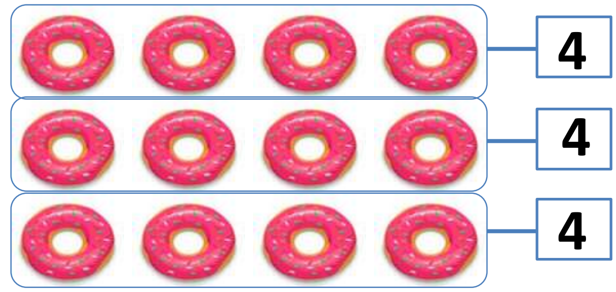
Complete:

8 × 5 = ...	9 × 4 = ...
9 × 2 = ...	8 × 6 = ...
9 × 8 = ...	8 × 9 = ...
9 × 3 = ...	8 × 7 = ...
8 × 3 = ...	9 × 5 = ...
9 × 6 = ...	8 × 1 = ...
8 × 8 = ...	9 × 7 = ...

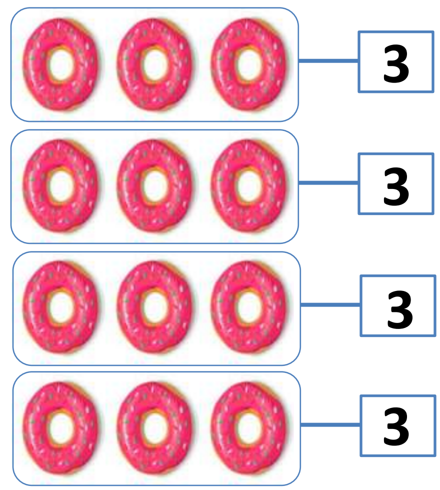
- Solve exercises on the multiplication table of 8 and 9. [ ]

Lesson 6 Properties of multiplication

Commutative property:



$4 + 4 + 4 = 3 \times 4 = 12$



$3 + 3 + 3 + 3 = 4 \times 3 = 12$

Therefore, $3 \times 4 = 4 \times 3$

Complete:

$5 \times 3 = 3 \times$ .....

$2 \times 7 =$ .... $\times$ ....

$2 \times 6 = 6 \times$ .....

$3 \times 9 =$ .... $\times$ ....

$7 \times$ ..... $= 8 \times 7$

.... $\times$ .... $= 9 \times 4$

..... $\times 4 = 4 \times 1$

.... $\times$ .... $= 5 \times 7$

- Understand the meaning of commutative property. [ ]
- Solve exercises by using commutative property. [ ]

Multiplying any number by 0

Any number × 0 = 0

EX: 7 × 0 = 0 18 × 0 = 0

0 × 1 = 0 0 × 323 = 0

Complete:

9 × 0 = ……

11 × 0 = ……

0 × 6 = ……

0 × 20 = ……

297 × 0 = ……

0 × 0 = ……

Multiplying any number by 1

Any number × 1 = the same number

EX: 3 × 1 = 3 45 × 1 = 45

1 × 9 = 9 70 × 1 = 70

Complete:

17 × 1 = ……

10 × 0 = ……

34 × 0 = ……

1 × 100 = ……

1 × 29 = ……

0 × 53 = ……

0 × 297 = ……

11 × 1= ……

78 × 0 = ……

1 × 0 = ……

- Understand rules for multiplying by 0 and 1. [ ]
- Solve exercises on multiplying by 0 and 1. [ ]

Multiplying by 10 and its multiples

EX: 5 × 10 = 50 | 40 × 10 = 40 | 145 × 10 = 1,450

EX: 3 × 20 = 60 | 6 × 1,000 = 6,000 | 23 × 100 = 2,300

EX: 7 tens = 70 | 30 hundreds = 3,000 | 4 × 3 tens = 120

Complete:

8 × 10 = ...

22 × 10 = ...

50 × 30 = ...

4 × 100 = ...

9 hundreds = ...

66 thousands = ...

4 × .... = 40

3 × ....= 3,000

.... × 10 = 100

10 × 37 = ...

10 × 126 =..........

300 × 20 = ...

100 × 123 = ...

5 ten thousands = ...

23 tens = ...

23 × .... = 2,300

2 × .... = 600

10 × .... = 1,000

10 × 307 = ...

500 × 10 = ...

40 × 300 = ...

500 × 10 = ...

1 × 6 hundreds = ...

4 thousands × 2 =.......

..........× 35 = 35,000

..........× 10 = 9,000

50 × .... =50,000

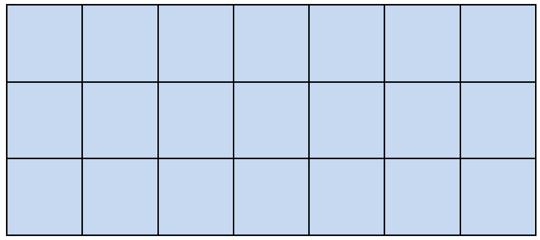
Find the result and join:

8 × 10	5 × 100	2 × 3 thousands	20 × 5	9 × 10
......	......	....	......	......

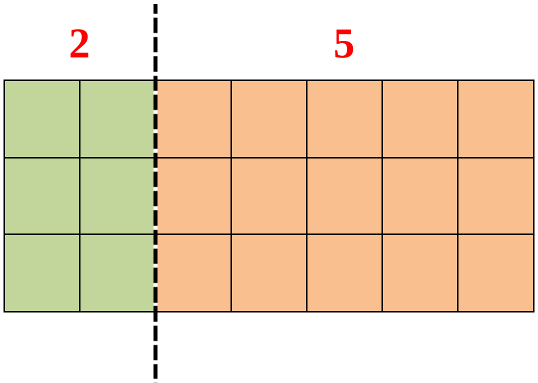
......	......	......	......	......
100 × 1	30 × 3	50 × 10	8 tens	60 × 100

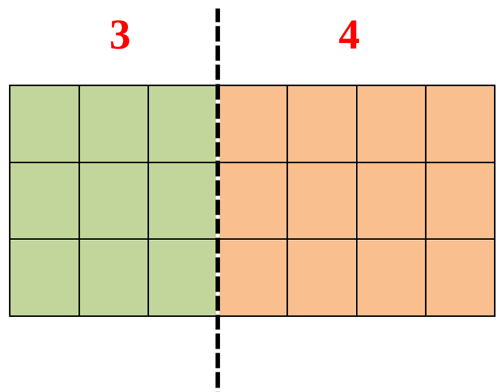
- Understand rules for multiplying by 10 and its multiples. [ ]
- Solve exercises on multiplying by 10 and its multiples. [ ]

Distributive property:



$3 \times 7 = 21$





$3 \times 7 = 3 \times (2 + 5)$

$= (3 \times 2) + (3 \times 5)$

$= 6 + 15$

$= 21$

$3 \times 7 = 3 \times (3 + 4)$

$= (3 \times 3) + (3 \times 4)$

$= 9 + 12$

$= 21$

EX:

$4 \times 9 = 4 \times (4 + 5)$

$= (4 \times 4) + (4 \times 5)$

$= 6 + 15$

$= 21$

- Understand the meaning of distributive property. [ ]

Complete:

(6 × 5) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(3 × 9) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(6 × 7) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(4 × 8) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(5 × 7) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(5 × 9) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(2 × 7) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(4 × 12) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(6 × 11) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(5 × 4) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(3 × 5) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(3 × 14) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(4 × 9) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(4 × 15) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

(7 × 5) = ... × (.... + ...)
= (.... × ....) + (.... × ....)

Complete:

(5 × 8) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(3 × 6) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(3 × 8) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(2 × 12) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(5 × 11) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(2 × 9) = 7 × (.... + ...)
= (7 × ....) + (7 × ....)
= .... + ...
= ....

(4 × 9) = ... × (.... + ...)
= (.... × ....) + (.... × ....)
= .... + ...
= ....

(3 × 7) = ... × (.... + ...)
= (.... × ....) + (.... × ....)
= .... + ...
= ....

(4 × 8) = ... × (.... + ...)
= (.... × ....) + (.... × ....)
= .... + ...
= ....

Multiplication story problems



Read and solve:

Mariam had 4 sweaters. Each sweater had 3 buttons on it.

How many buttons are there on all the sweaters?

A building has 6 floors. There are 4 apartments per floor.

How many apartments are in the building?

If a pack of pens contains 6 pens.

How many pens in 5 packs?

Ahmed has 3 packets of biscuits each contains 6 pieces of biscuits.

How many pieces of biscuits ahmed has?

Farida bought 4 pens. The price of each pen is 2 pounds.

How many pounds did farida pay?

- **Solve multiplication story problems.** [ ]

Mustafa has 2 boxes of cans .each box contains 8 cans.

How many cans are with Mustafa?

……

……

There are 4 boats in the sea. Each boat carries 4 people.

How many people are in the sea?

……

……

There are 6 kids at a party. Each kid has 3 balloons.

How many balloons are there in all?

……

……

There are 5 tables at the restaurant. Each table has 4 plates.

How many plates are there in all?

……

……

There are 4 cars on the road.

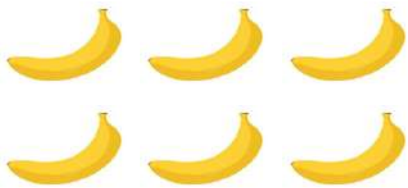
How many wheels are there in all?

……

……

Meaning of division

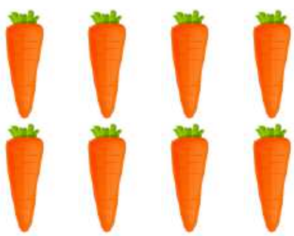
Divide is separate some things into equal parts.





Each monkey get 2 bananas.

$$6 \div 3 = 2$$





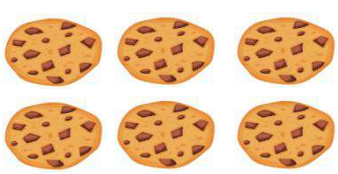
Each rappit get 4 carrots.

$$8 \div 2 = 4$$

dividend — divisor — quotient

It is read as : 8 divided by 2 equals 4

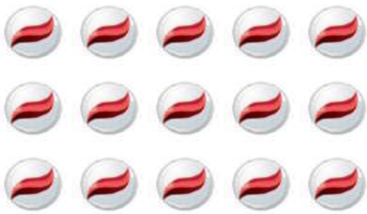
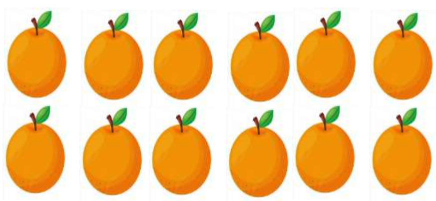
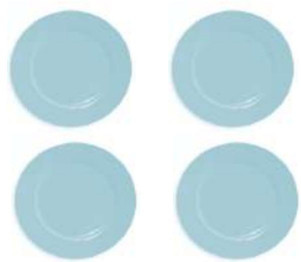
Divide into equal groups and complete the equation:





..... ÷ ..... = ...

- Understand the meaning of division. [ ]
- Solve exercises on division operation. [ ]

		..... ÷ ..... = ...
		..... ÷ ..... = ...
		..... ÷ ..... = ...

Find the quotient:

6 ÷ 2 = ...	24 ÷ 3 = ...	25 ÷ 5 = ...	20 ÷ 5 = ...
8 ÷ 4 = ...	15 ÷ 3 = ...	16 ÷ 2 = ...	36 ÷ 6 = ...
10 ÷ 5 = ...	12 ÷ 4 = ...	4 ÷ 1 = ...	21 ÷ 7 = ...
16 ÷ 4 = ...	10 ÷ 2 = ...	36 ÷ 4 = ...	15 ÷ 5 = ...
42 ÷ 6 = ...	30 ÷ 5 = ...	49 ÷ 7 = ...	35 ÷ 5 = ...
27 ÷ 3 = ...	9 ÷ 3 = ...	2 ÷ 2 = ...	28 ÷ 4 = ...
24 ÷ 4 = ...	20 ÷ 4 = ...	32 ÷ 4 = ...	18 ÷ 3 = ...
18 ÷ 2 = ...	32 ÷ 8 = ...	14 ÷ 2 = ...	5 ÷ 5 = ...

- Solve exercises on division operation. [ ]

Lesson 9 | Division story problems

Read and solve:

Heba baked 16 cupcakes for her children. If the cupcakes are shared equally among 4 of her children.

How many cupcakes will each child get?

....

....

A teacher distributes 36 pencils equally among 9 students in the class.

How many pencils will each student receive?

....

....

A teacher divides 15 students into 3 teams.

How many students in each team?

....

....

Logy distribute 14 bones between 2 dogs.

How many bones will each dog get?

....

....

Yassin has 18 packet of biscuits .if he shared them equally among 3 friends.

How many packets will each friend get?

....

....

Mahmoud distribute 9 crayons among 3 of his friends.

How many crayons will each one get?

....

....

Habiba has 20 cookies. She wanted to share them among 4 of her friends.

How many cookies will each one of her friends get?

....

....

A teacher wanted to share 32 books among 4 students.

How many books will each student get?

....

....

There are 30 fish. Each dog wants to eat 5 fish.

How many dogs can be fed?

....

....

A class has 20 pupils .if they are divided into groups of 5 pupils each.

How many groups are there?

....

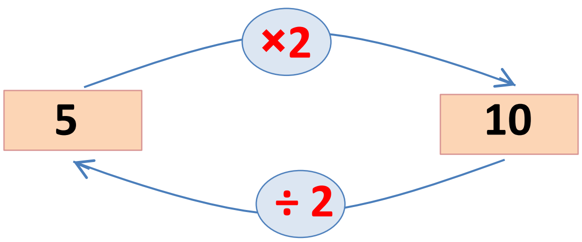
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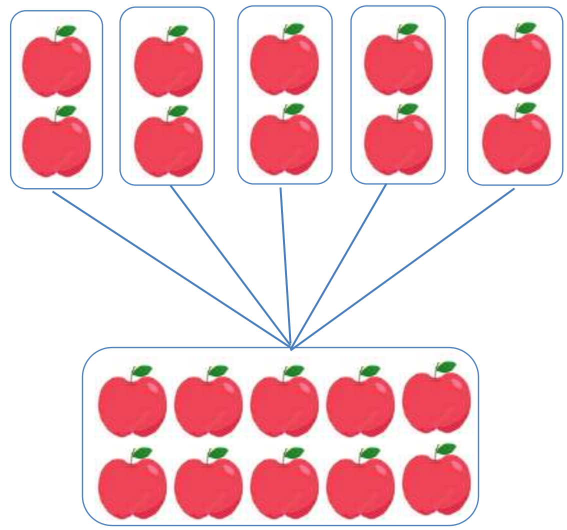
- **Solve division story problems.** [ ]

Relation between multiplication and division

Division is the **inverse** operation of **multiplication**.

5 | 2 | 10





5 × 2 = 10

10 ÷ 5 = 2

Complete:

2 5 10

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

3 7 21

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

6 4 24

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

9 3 27

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

5 6 30

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

4 8 32

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

- Understand the relation between multiplication and division. [ ]
- Write the fact family of the given numbers. [ ]

Complete:

- 10 / ... / 2
- ... / 3 / 5
- 21 / ... / 7
- 18 / 3 / ...
- 32 / ... / 4
- ... / 2 / 4
- ... / 5 / 8
- 35 / 5 / ...
- 18 / ... / 9

Complete:

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

8 / 2 / 4

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

24 / 3 / 8

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

15 / 5 / 3

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

30 / 6 / 5

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

14 / 7 / 2

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

27 / 9 / 3

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

12 / 3 / 4

..... × ..... = ...
..... × ..... = ...
..... ÷ ..... = ...
..... ÷ ..... = ...

35 / 5 / 7

- Write the fact family for each set of numbers. [ ]

Complete:

$5 \times 3 = \square$	$6 \times \square = 18$	$\square \times 7 = 6$
$\square \times 7 = 21$	$5 \times 5 = \square$	$9 \times \square = 9$
$2 \times 3 = \square$	$\square \div 7 = 5$	$15 \div 3 = \square$
$\square \times 8 = 32$	$9 \times \square = 36$	$\square \times 7 = 42$
$30 \div \square = 6$	$5 \times 3 = \square$	$16 \div 4 = \square$

Put the suitable sign from (× or ÷)

$4 \ \square \ 3 = 12$	$5 \ \square \ 4 = 20$	$8 \ \square \ 8 = 64$
$14 \ \square \ 2 = 7$	$1 \ \square \ 7 = 7$	$49 \ \square \ 7 = 7$
$3 \ \square \ 9 = 21$	$3 \ \square \ 10 = 30$	$20 \ \square \ 4 = 5$
$45 \ \square \ 5 = 9$	$9 \ \square \ 3 = 27$	$18 \ \square \ 3 = 6$
$6 \ \square \ 2 = 12$	$36 \ \square \ 4 = 9$	$6 \ \square \ 7 = 42$

Find the result and join

3×2	8×3	10×1	$24 \div 3$	$5 + 5 + 5$
……	……	……	……	……
……	……	……	……	……
$4 + 4$	3×5	$30 \div 5$	3×8	2×5

Factor pair

a group of two numbers we multiply to get the product.

EX: 2 × 3 = 6 — 2 , 3 factor pair of 6 | 3 × 2 = 6 — 3 , 2 factor pair of 6

1 × 6 = 6 — 1 , 6 factor pair of 6 | 6 × 1 = 6 — 6 , 1 factor pair of 6

Factors of a number

are Numbers we can multiply together to get another number.

EX: factors of number 6 are : 1 , 6 , 2 , 3

Write factor pair and the factors of each number:

8

.... × ....
.... × ....

Factors: ....

10

.... × ....
.... × ....

Factors: ....

15

.... × ....
.... × ....

Factors: ....

12

.... × ....
.... × ....

Factors: ....

16

.... × ....
.... × ....
.... × ....

Factors: ....

5

.... × ....

Factors: ....

20

.... × ....
.... × ....
.... × ....

Factors: ....

9

.... × ....
.... × ....

Factors: ....

14

.... × ....
.... × ....

Factors: ....

- Understand the relation between the factors and their product. [ ]
- Write the factors of each number. [ ]



Find the product:

4 × 3 = ...

5 × 7 = ...

2 × 4 = ...

7 × 8 = ...

3 × 6 = ...

9 × 4 = ...

6 × 6 = ...

7 × 2 = ...

2 × 6 = ...

8 × 7 = ...

4 × 5 = ...

9 × 9 = ...

3 × 5 = ...

6 × 9 = ...

5 × 5 = ...

8 × 9 = ...

4 × 6 = ...

5 × 9 = ...

7 × 4 = ...

2 × 5 = ...

8 × 8 = ...

3 × 8 = ...

6 × 7 = ...

4 × 4 = ...

7 × 7 = ...

6 × 8 = ...

2 × 8 = ...

5 × 6 = ...

3 × 7 = ...

7 × 9 = ...

Find the product:

5 × 10 = ...	1 × 15 = ...
6 × 0 = ...	2 × 30 = ...
100 × 3 = ...	0 × 24 = ...
8 × 1 = ...	1,000 × 20 = ...
14 × 10 = ...	9 × 100 = ...

Find the quotient:

8 ÷ 2 = ...	36 ÷ 9 = ...
24 ÷ 4 = ...	21 ÷ 3 = ...
6 ÷ 3 = ...	64 ÷ 8 = ...
25 ÷ 5 = ...	16 ÷ 2 = ...
36 ÷ 6 = ...	63 ÷ 7 = ...
28 ÷ 7 = ...	32 ÷ 4 = ...
10 ÷ 2 = ...	42 ÷ 6 = ...
15 ÷ 3 = ...	45 ÷ 5 = ...
24 ÷ 8 = ...	27 ÷ 9 = ...

ELIAS

Chapter 3

Mr. Ahmed El Asi

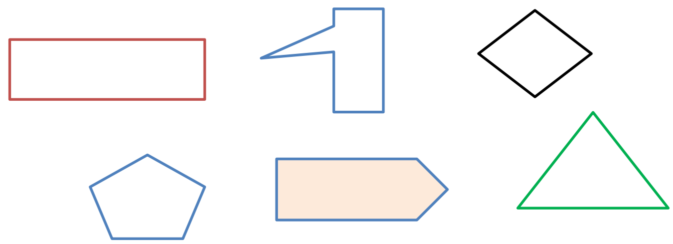
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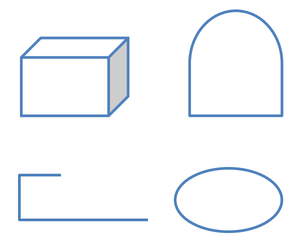
Definition of polygon

Polygon is a closed shape formed from 3 sides or more.

EX:

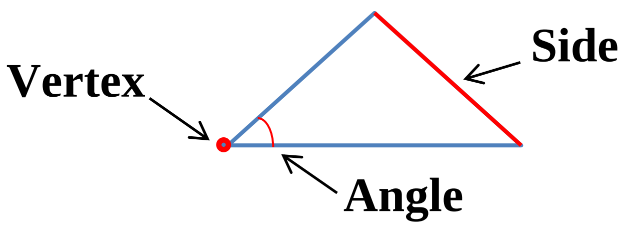


Polygons



Not Polygons

Elements of polygon



Note:

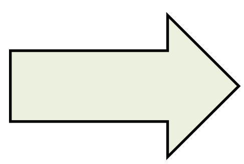
For any polygon:

Number of sides = number of vertices = number of angles

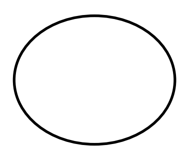
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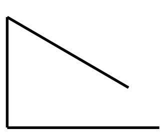
Polygon or Not Polygon



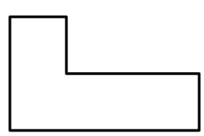
Polygon or Not Polygon



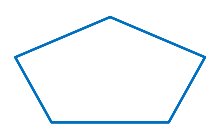
Polygon or Not Polygon



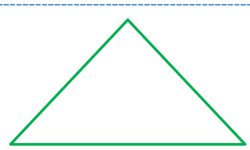
Polygon or Not Polygon



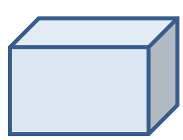
Polygon or Not Polygon



Polygon or Not Polygon



Polygon or Not Polygon

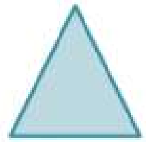
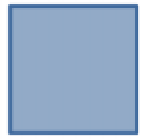
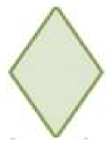
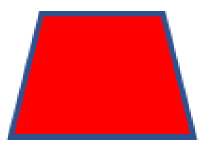
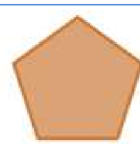
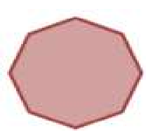


Polygon or Not Polygon



Polygon or Not Polygon

- Define polygon. [ ]

Name		Example	Number of sides
Triangle			3
Quadrilaterals	Square		4
	Rhombus		
	Rectangle		
	Parallelogram		
	Trapezium Trapezoid		
Pentagon			5
Hexagon			6
Heptagon			7
Octagon			8

- Identify the polygons. [ ]

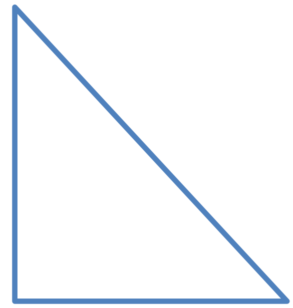
Write the name of each polygon:



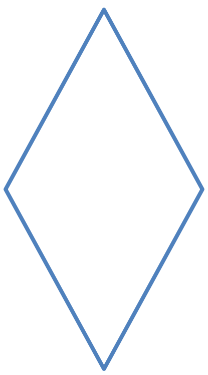
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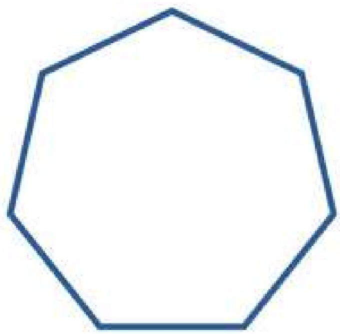
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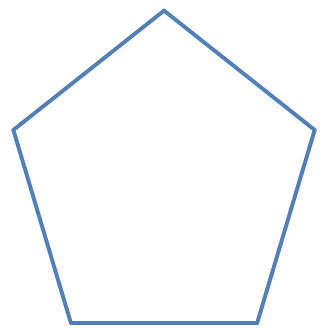
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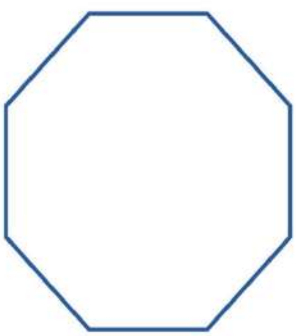
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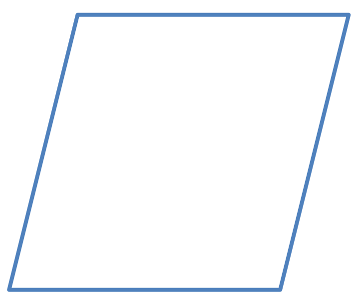
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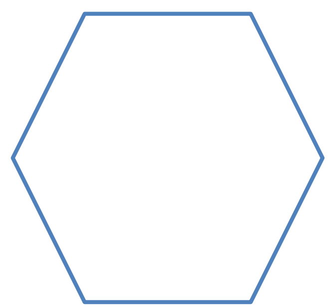
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....



....

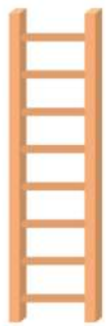
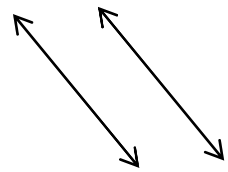


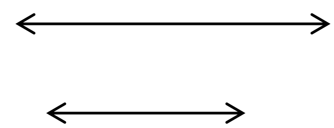
....

Parallel lines

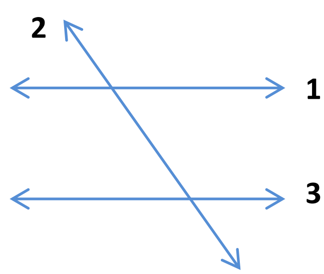
Parallel lines are the lines can go on forever and never intersect.

EX:

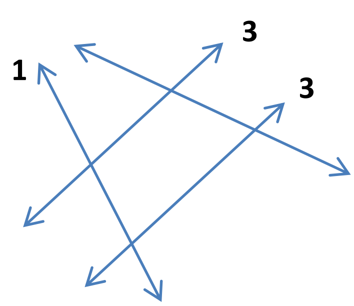



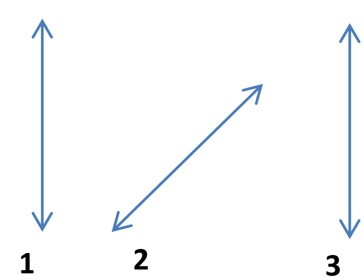
Write the numbers of each pair of parallel lines:



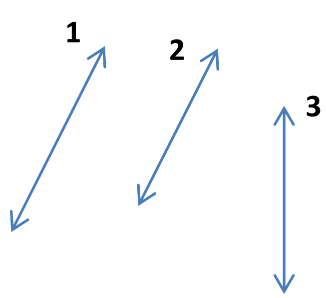
..... and ....



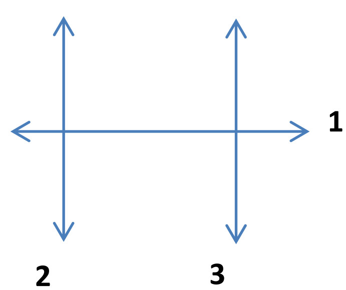
..... and ....



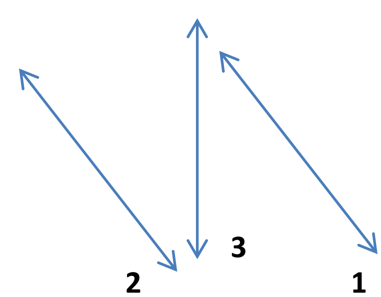
..... and ....



..... and ....



..... and ....



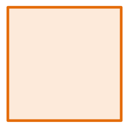
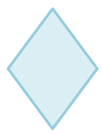
..... and ....

- Identify the parallel lines. [ ]

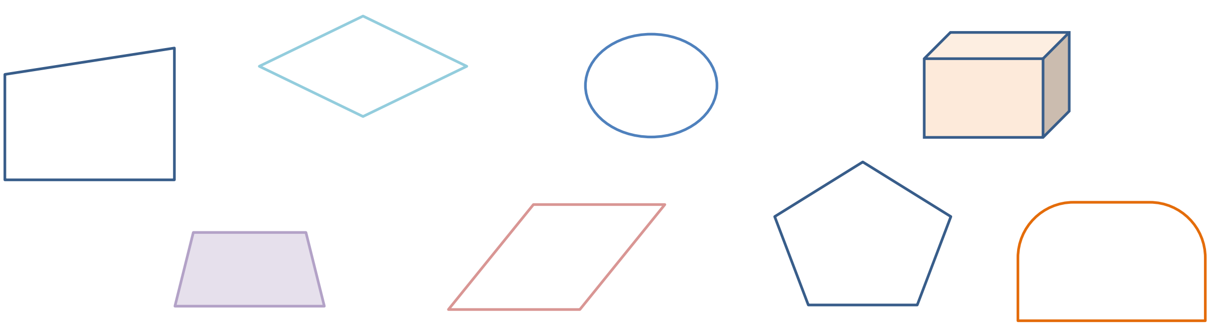
Quadrilaterals

Quadrilateral is a polygon that has **4** sides.

Attributes of quadrilaterals

Name	Example	Sides	Angles
Square		**All** sides are equal	**All** angles are equal
Rhombus		**All** sides are equal	Each **2 opposite** angles are equal
Rectangle		Each **2 opposite** sides are equal	**All** angles are equal
Parallelogram		Each **2 opposite** sides are equal	Each **2 opposite** angles are equal
Trapezium		-	-

Circle each quadrilateral:



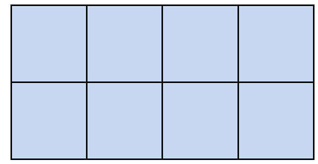
Definition of the Area

The area of a shape is the number of square units that needed to cover this shape.

EX:

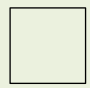
1	2
3	4
5	6

Area = 6 square units



Area = 8 square units

We measure the area by using square unit.

1 square unit = 

How to calculate the area

1- Count the number of square units

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Area = 15 square units

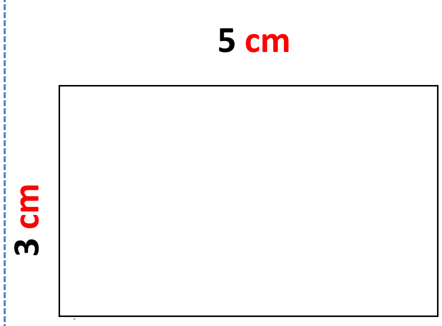
2- Using dimensions

1	2	3	4	5
2				
3				

Note: We multiply the dimensions.

Area = 3 rows × 5 columns

Area = 3 × 5 = 15 square units

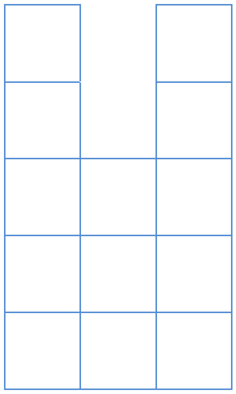


Note: - Use the ruler to measure the dimensions.

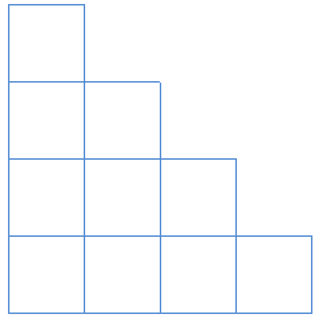
Area = 3 × 5 = 15 square cm

- Identify the area of a shape and how to calculate it. [ ]

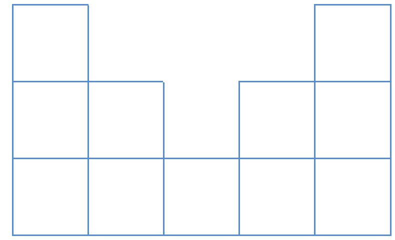
Find the area:



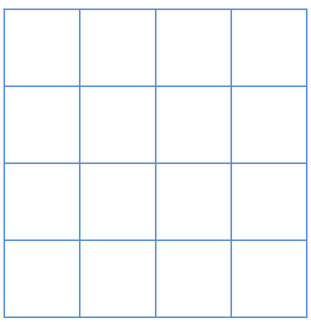
Area = ……



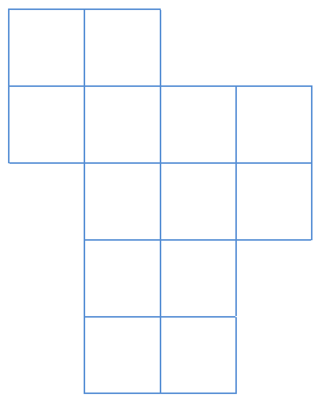
Area = ……



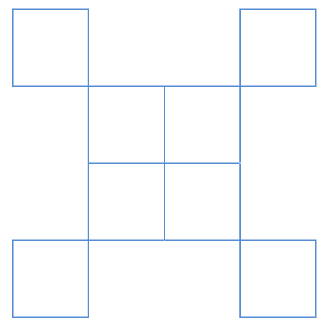
Area = ……



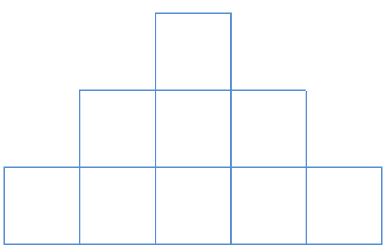
Area = ……



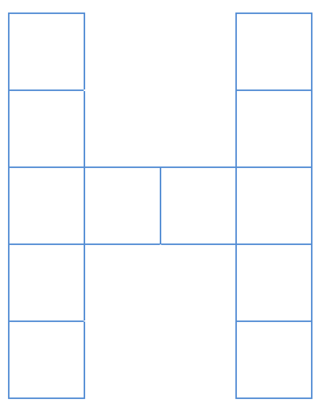
Area = ……



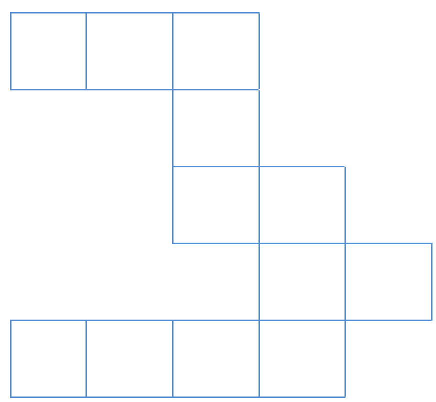
Area = ……



Area = ……



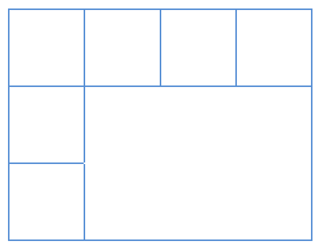
Area = ……



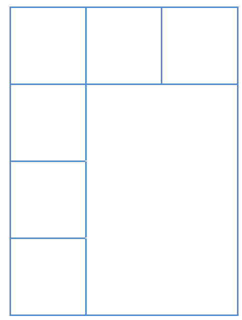
Area = ……

- Find the area of the given shape. [ ]

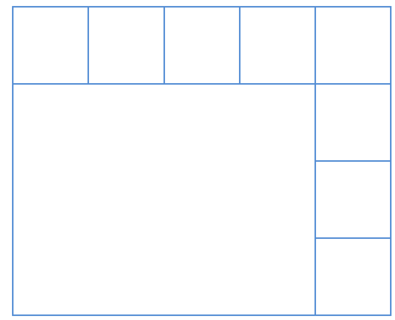
Find the area:



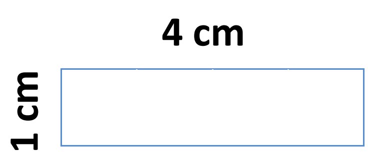
Area = ... × ...... = ... square units



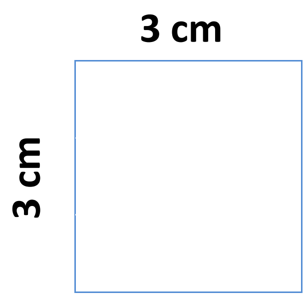
Area = ... × ...... = ... square units



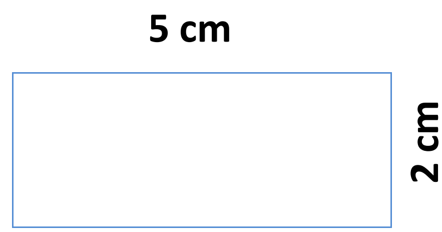
Area = ... × ...... = ... square units



Area = ... × ...... = ... square cm



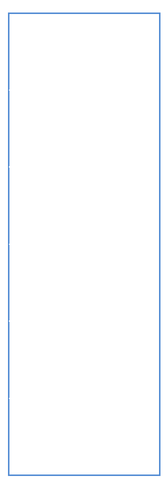
Area = ... × ...... = ... square cm



Area = ... × ...... = ... square cm



Area = ... × ...... = ... square cm



Area = ... × ...... = ... square cm



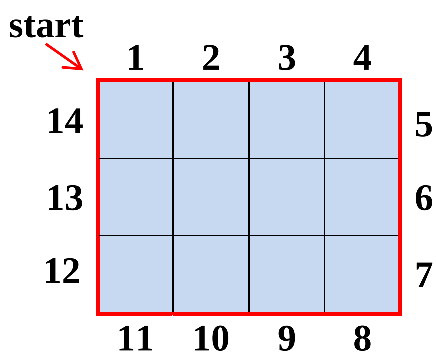
Area = ... × ...... = ... square cm

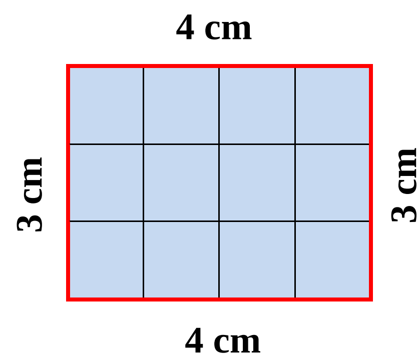
- Find the area of the shape. [ ]

Definition of the perimeter

The perimeter of a shape is the length of the line that outlines that shape.

EX:





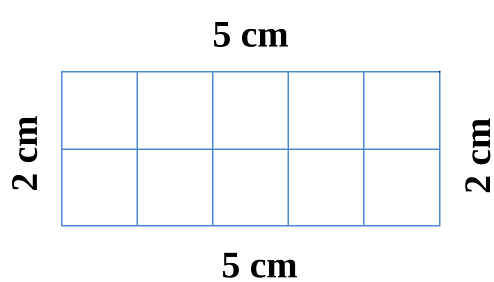
Perimeter = 4 + 3 + 4 + 3 = 14 cm

We measure the area by using linear unit

1 linear unit = ——

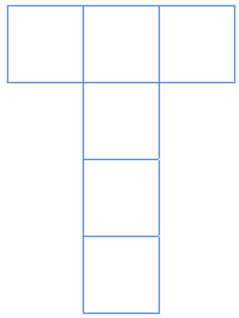
How to calculate the perimeter for any polygon

The perimeter for any polygon is the sum of its sides' lengths.

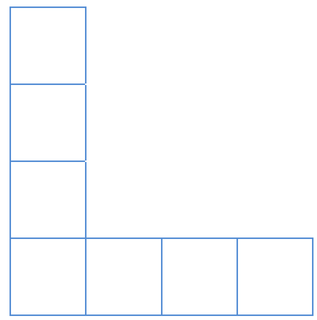


The perimeter = 5 + 2 + 5 + 2 = 14 cm

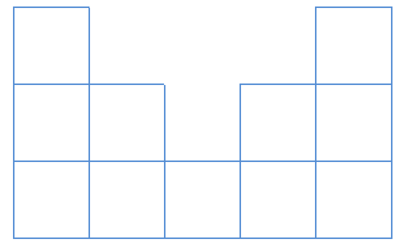
Find the Perimeter:



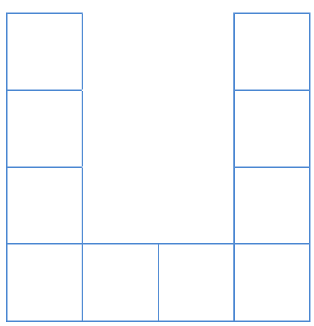
Perimeter = ... ______



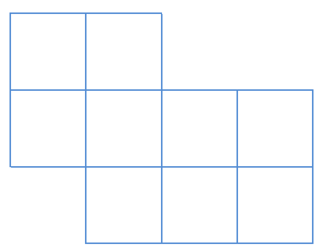
Perimeter = ... ______



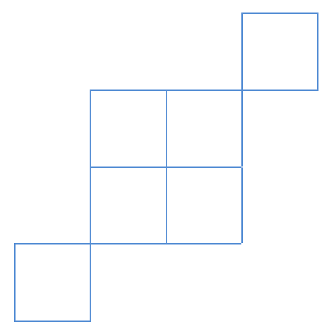
Perimeter = ... ______



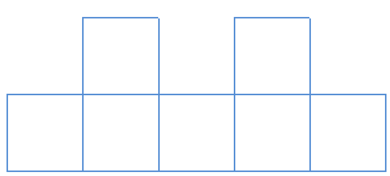
Perimeter = ... ______



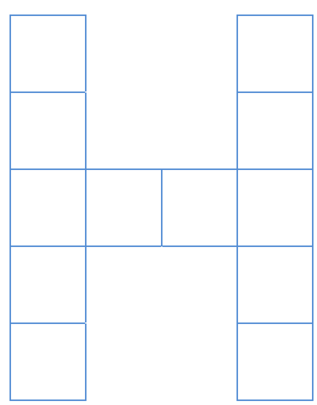
Perimeter = ... ______



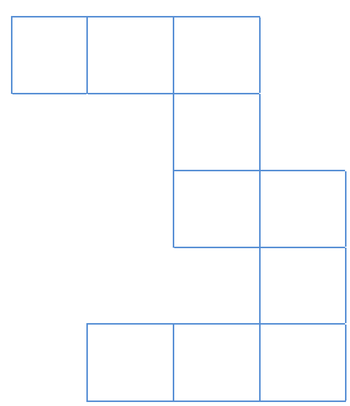
Perimeter = ... ______



Perimeter = ... ______



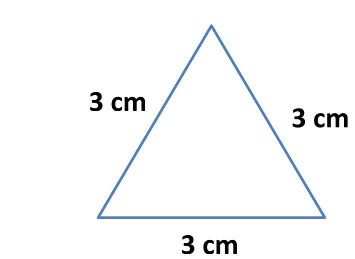
Perimeter = ... ______



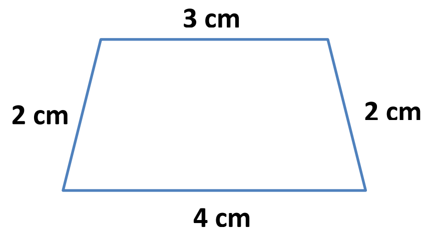
Perimeter = ... ______

- Find the perimeter of the shape. [ ]

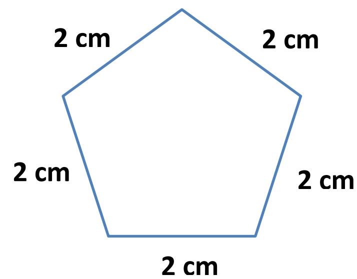
Find the perimeter:



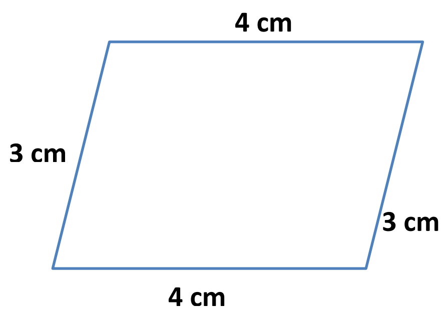
Perimeter = ... + ... + ...
= .... cm



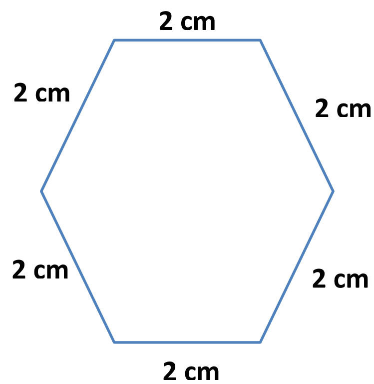
Perimeter = ... + ... + ... + ...
= .... cm



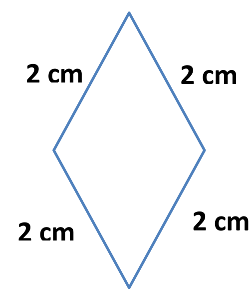
Perimeter = ... + ... + ... + ... + ...
= .... cm



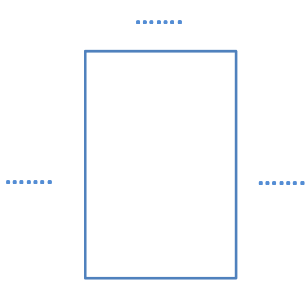
Perimeter = ... + ... + ... + ...
= .... cm



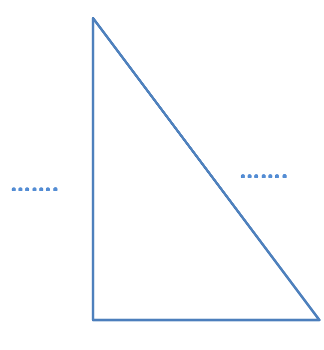
Perimeter = ... + ... + ... + ... + ... + ...
= .... cm



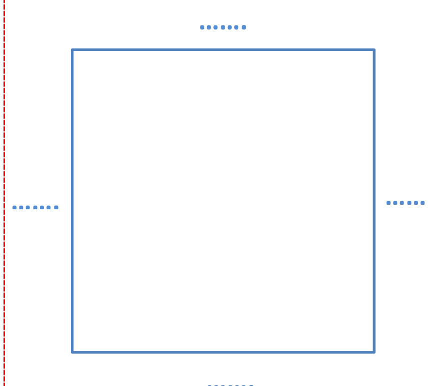
Perimeter = ... + ... + ... + ...
= .... cm



Perimeter = ... + ... + ... + ...
= .... cm



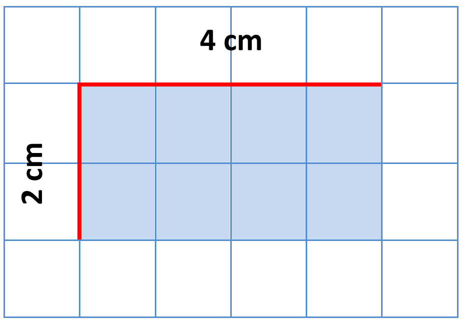
Perimeter = ... + ... + ...
= .... cm



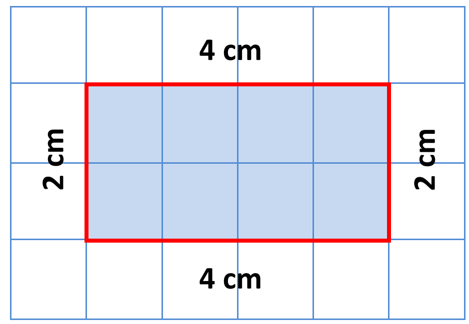
Perimeter = ... + ... + ... + ...
= .... cm

Relation between Area and Perimeter

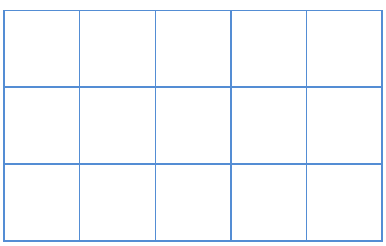
Area



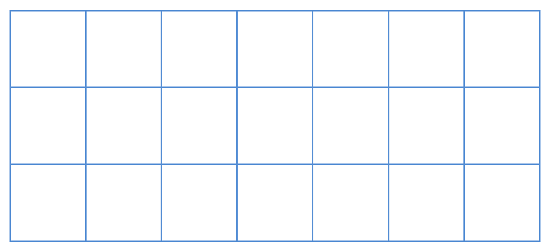
perimeter



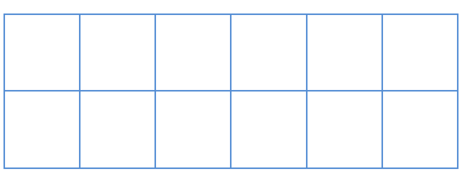
Find the area and the perimeter of each shape:



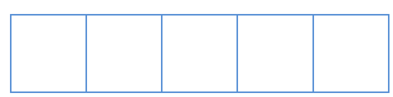
Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm

- Find area and perimeter of each shape. [ ]

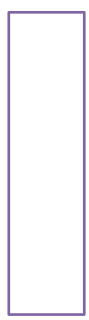
Measure then Find the area and the perimeter of each shape:



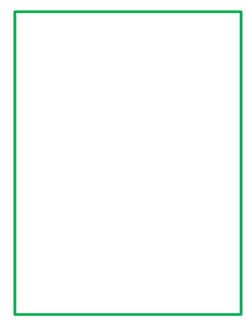
Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



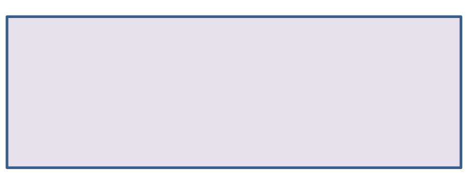
Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



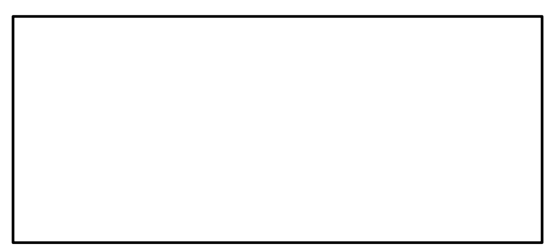
Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm

- Find the area and the perimeter of each polygon. [ ]

Area and perimeter story problems

Mina is painting one wall in his bedroom. The wall measures 7 m long and 3 m wide.

What is the area of the wall?

....

....

Sara is buying a cover for her table. If the table is 2 m long and 3 m wide.

What is the area of the cover?

....

....

Mona wants to tile the kitchen floor. If the floor is 5 meters long and 3 meters wide.

How many one meter square tiles will she need?

....

....

Salma has a backyard that is square .one of the sides is 10 meters long.

What is the area of the backyard?

....

....

The length of a rectangle is 4 cm and the width is 5 cm.

what is the area of the rectangle?

....

....

The length of a square is 5 cm.

What is the area of the square?

....

....

- Solve area and perimeter story problems. [ ]

Mahmoud has a picture. He wants to make a frame for it .the length is 7 cm and the width is 5 cm.

What is the perimeter of the picture frame?

....

....

A book had a length of 20 cm and a width of 15 cm.

What is the perimeter of the book ?

....

....

A farmer needs to make a fence around his garden. The garden is 30 m long and 10 m wide.

What is the length of the fence?

....

....

The length of a rectangle is 5 cm and the width is 6 cm.

What is the perimeter of the rectangle?

....

....

The length of a square is 5 cm.

What is the perimeter of the square?

....

....

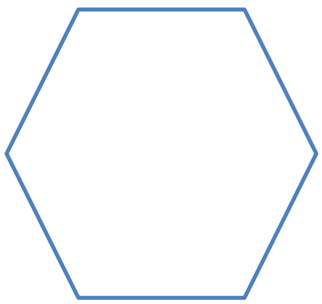
A rectangular block of chocolate has a length of 8 cm and a width of 6 cm.

What are the area and the perimeter of the chocolate?

....

....

Write the name of each polygon:



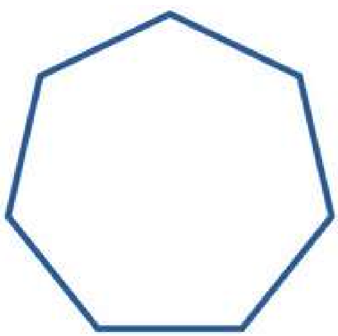
....



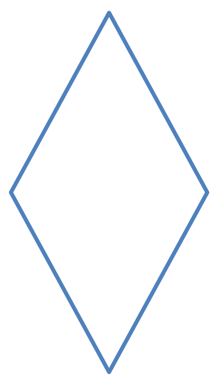
....



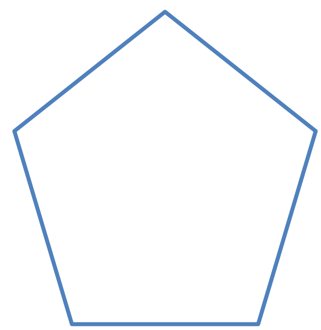
....



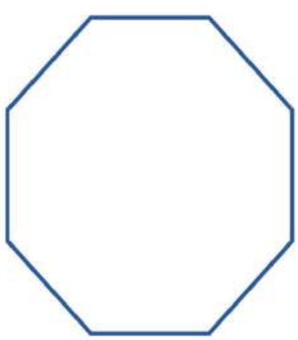
....



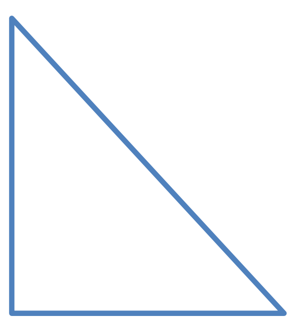
....



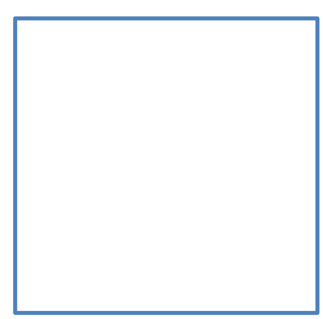
....



....

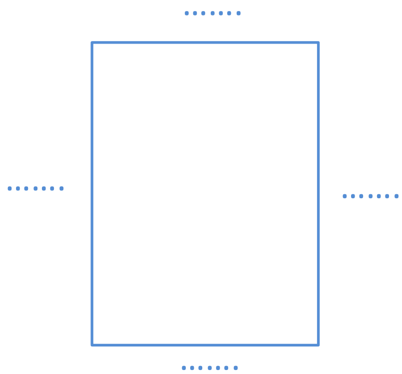


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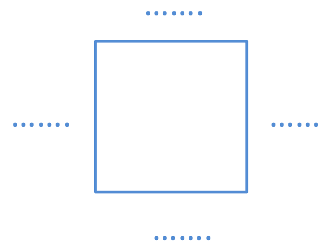


....

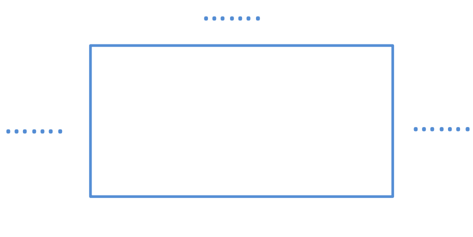
Measure then Find the area and the perimeter of each shape:



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm



Area = ... × ..... = ... square cm
Perimeter = ... + ... + ... + ... = ... cm

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Chapter 4

Mr. Ahmed El Asi

Port Said - 01097509532



Lesson 1 Tally marks

Tally table

is a way to **record** data by using **tally marks**.

Tally marks

| = 1 || = 2 ||| = 3 |||| = 4   𝍸 = 5

Example:

This is a survey about favorite fruits in the class:

mango	banana	mango	apple
orange	mango	mango	orange
apple	orange	banana	mango
orange	mango	apple	orange

Fruit	tally	Number
Mango	𝍸 |	6
Apple	|||	3
Banana	||	2
Orange	𝍸	5

This is a survey about favorite colors in the class:

green	red	green	blue
yellow	blue	red	green
orange	green	green	orange
green	red	yellow	red
red	yellow	orange	green

color	tally	Number
Red		…….
Green		…….
Blue		…….
Yellow		…….
Orange		…….

This is a survey about favorite sport in the class:

football	handball	basketball	football
swimming	football	swimming	football
handball	swimming	handball	swimming
handball	football	football	swimming
basketball	swimming		

sport	tally	Number
Football		…….
Handball		…….
Basketball		…….
swimming		…….

- Identify tally marks. [ ]

Bar graph

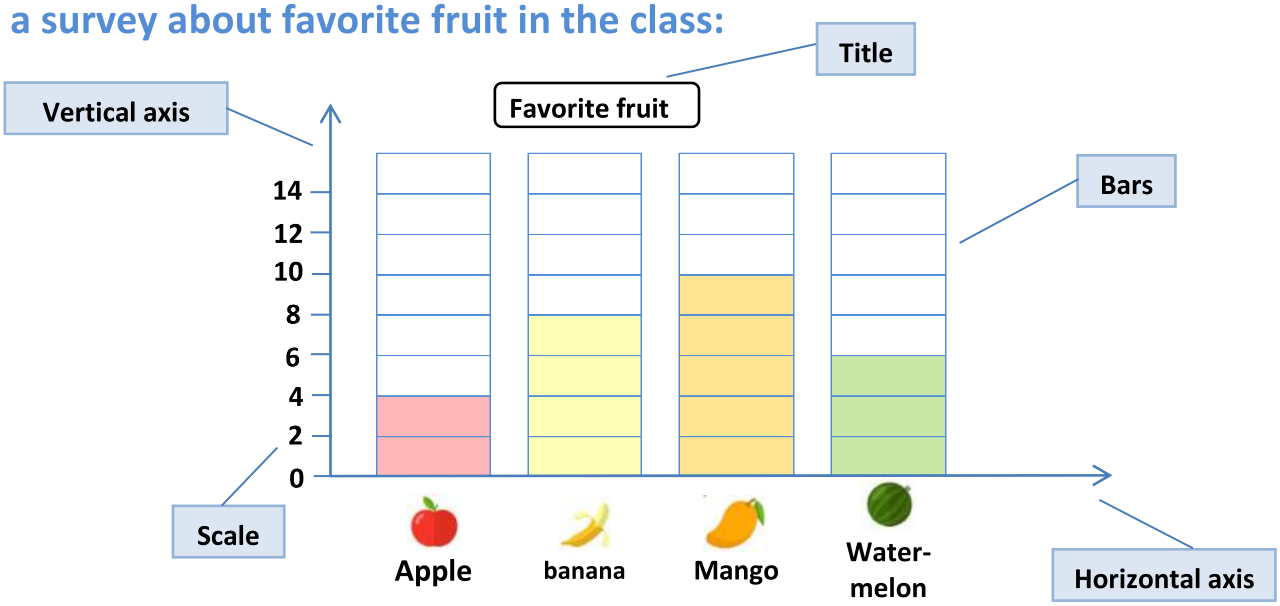
is a way to **represent** data by using **bars**.

Scale

show the units used on the bar graph.

Example:

This is a survey about favorite fruit in the class:



What is the **most** favorite fruit? Mango

What is the **least** favorite fruit? Apple

How many students liked  ? 10

How many students in all liked  and  ? 6 + 10 = 16

How many more students liked  than  ? 12 – 8 = 4

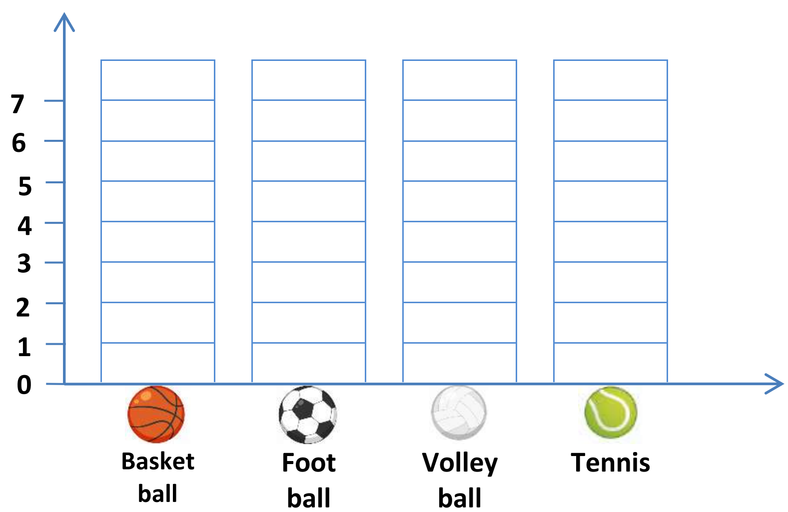
- Identify the elements of a bar graph. [ ]

Complete and represent:

This is a survey about favorite sports in the class:

Football	Handball	Volleyball
Handball	Tennis	Football
Volleyball	Football	Handball
Football	Handball	Volleyball
Tennis	Football	Football
Football	Handball	

sport	tally	Number
Basketball		....
Football		....
Volleyball		....
Tennis		....



What is the **most** favorite sport? ....

What is the **least** favorite sport? ....

How many students liked (volleyball) ? ....

How many students in all liked (tennis) **and** (basketball) ? ....

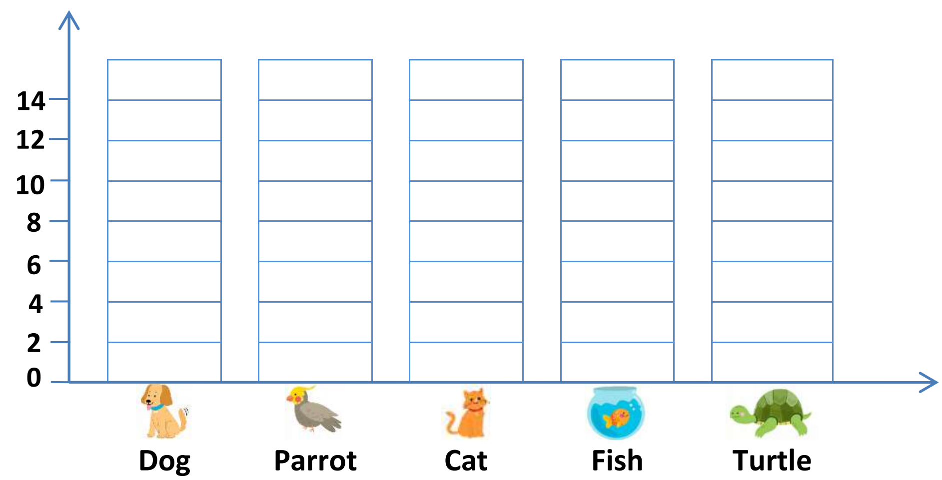
How many more students liked (football) **than** (volleyball) ? ....

Complete and represent:

This is a survey about favorite pets in the class:

Cat	Dog	Cat	Fish
Cat	Fish	Dog	Parrot
Dog	Parrot	Cat	Turtle
Cat	Fish	Dog	Cat
Parrot	Dog	Cat	Dog
Cat	Turtle	Parrot	Fish

Pets	tally	Number
Dog		....
Parrot		....
Cat		....
Fish		....
Turtle		....



What is the **most** favorite pet? ....

What is the **least** favorite pet? ....

How many students liked ? ....

How many students in all liked and ? ....

How many more students liked than ? ....

• Organize, represent, and analyze data from a bar graph. [ ]

Pictograph

is a way to represent data by using pictures.

Key

The key tells how many each pictures represents. EX:  = 1 Or  = 5

Example:

This is a survey about favorite subjects in the class:

Key

 = 2 students

 = 1 student

Favorite subject	
Math	
Arabic	
Discover	
English	

What is the most favorite subject? Math

What is the least favorite subject? Discover

How many people liked Arabic? 5

How many people in all liked Arabic and English? 5 + 3 = 8

How many more people liked Math than Discover? 8 – 2 = 6

- Identify the elements of a pictograph. [ ]

Complete and represent:

This is a survey about favorite animals in the zoo:

animals	tally	Number
Elephant	卌 |||	…….
Giraffe	卌	…….
Lion	卌 卌	…….
Monkey	|||	…….

Key:

 = 2

 = 1

Favorite animals	
Elephant	
Giraffe	
Lion	
Monkey	

What is the **most** favorite animal? ………………….

What is the **least** favorite animal? ………………….

How many people liked (elephant) ? ………………….

How many people in all liked (lion) **and** (monkey) ? ………………….

How many more people liked (lion) **than** (giraffe) ? ………………….

- Create a pictograph. [ ]

Complete and represent:

This is a survey about favorite color in the class:

color	tally	Number
Blue	卌 卌 卌	....
Red	卌 卌 卌 卌 卌	....
Yellow	卌 卌	....
Green	卌 卌 卌	....
Orange	卌	....

Favorite color	
Blue	
Red	
Yellow	
Green	
Orange	

Key: Each  = 5 students

What is the **most** favorite color? ....

What is the **least** favorite color? ....

How many students liked  ? ....

How many students in all liked  and  ? ....

How many more students liked  than ? ....

- Create a pictograph from a data table. [ ]

Line plots

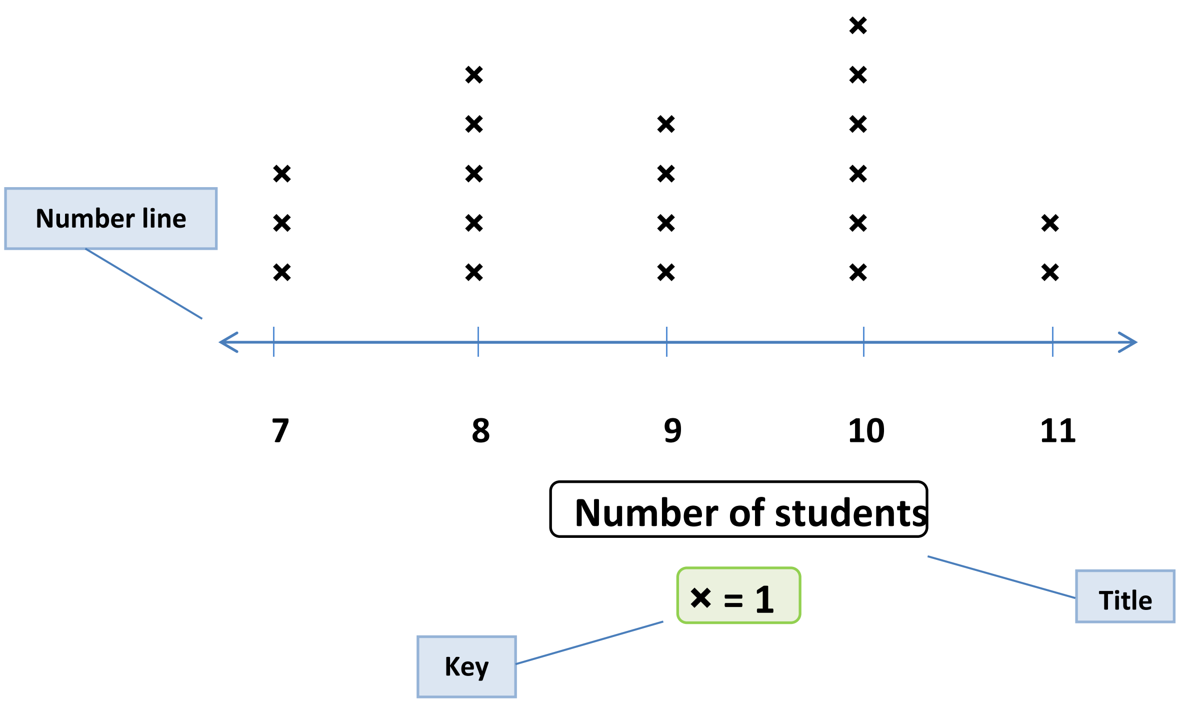
Is a way to represent data by using **check marks**.

Check marks

show the **frequency** of each **value**. **EX:** × = 1

Example:

This is a survey about the ages of group of students in a school.



What age is the **most** number of students? 10

What age is the **least** number of students? 11

How many students are 9 years old? 4

How many students are younger than 9 years old? 5 + 3 = 8

How many students are older than 10 years old? 2

- Identify the elements of a line plot. [ ]

Complete and represent:

This table shows the marks of students in an exam:

Marks	tally	Number
12	𝍷𝍷𝍷𝍷	....
13	𝍸 𝍷	....
14	𝍷𝍷	....
15	𝍸 𝍷𝍷𝍷	....
16	𝍷	....
17	𝍷𝍷𝍷	....



Key: × = 1

What is the most frequency mark? ....

What is the least frequency mark? ....

How many students get 14? ....

How many students get marks more than 13? ....

How many students get marks less than 15? ....

- Create a line plot. [ ]

Complete and represent:

This is a survey about favorite transportation:

Marks	tally	Number
 Walking	𝍸 𝍸	....
 Bicycle	𝍸 |	....
 Bus	|||	....
 Taxi	𝍸 |||	....



Walking Bicycle Bus Taxi

Key: × = 2 ⸜= 1

What is the **most** frequency transportation? ....

What is the **least** frequency transportation? ....

How many students get  ? ....

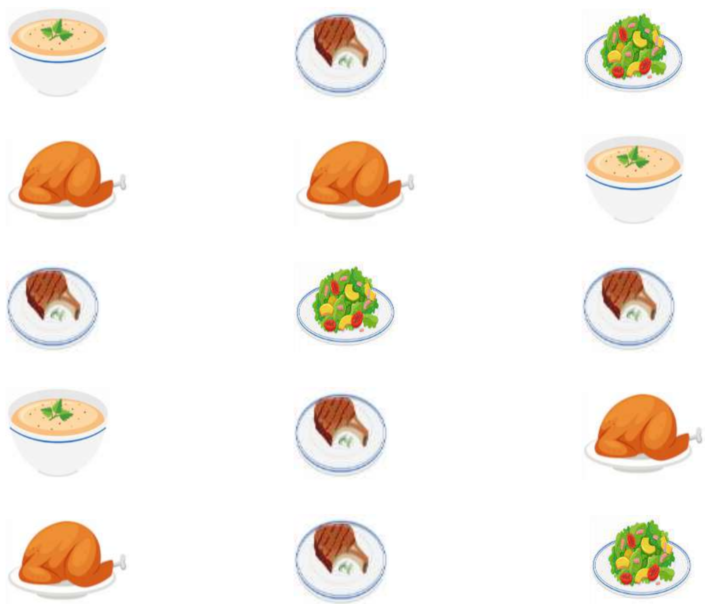
How many students in all liked  and  ? ....

How many more students liked  than  ? ....

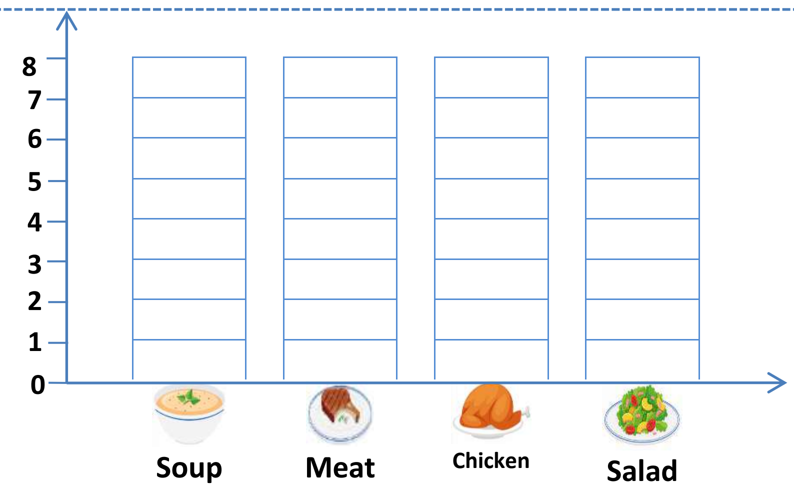
- Create a line plot. [ ]

Complete and represent:

This is a survey about favorite food in the class:



food	tally	number
Soup		....
Meat		....
Chicken		....
Salad		....



What is the **most** favorite food? ....

What is the **least** favorite food? ....

How many students liked  ? ....

How many students in all liked  and  ? ....

How many more students liked  than  ? ....

Complete and represent:

This is a survey about favorite color:

color	tally	Number
Green	卌 |||	…….
Red	卌	…….
Blue	卌 卌	…….
Yellow	|||	…….

color	
Green	
Red	
Blue	
Yellow	

 = 2 students

 = 1 student

---

This is a survey about the number of study hours per week for a number of students:

Marks	tally	Number
10	||	…….
11	卌 |||	…….
12	|||	…….
13	卌 卌	…….
14	||||	…….
15	||	…….



Key: × = 2 students

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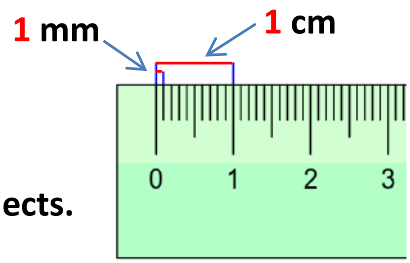
Chapter 5

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Meter (m), Centimeter (cm) and Millimeter (mm)



m , cm and mm Are units to measure the length.

Meter (m): used to measure length of large objects.

Centimeter (cm): used to measure length of small objects.

Millimeter (mm): used to measure length of very small objects.

1 cm = 10 mm

1 m = 100 cm

m —(x 100)→ cm —(x 10)→ mm

Choose the suitable unit to measure each object:



cm m



cm m



cm m



cm m



cm m



cm m



mm m



cm m



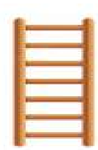
cm m



cm m

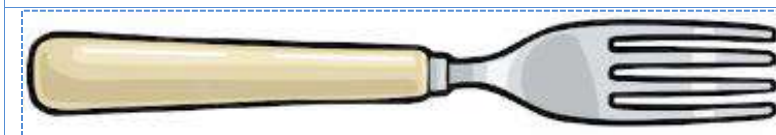


mm m



mm m

Measure the length of each object:

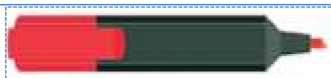
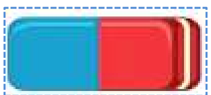
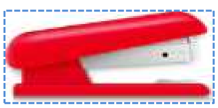
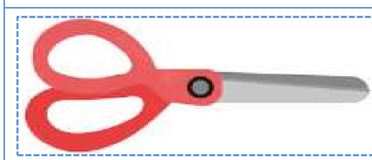
Object	Measure
	.... cm
	.... cm
	.... cm
	.... cm

Measure the length of each line:

Object	Measure
____________________________	.... cm
__________	.... cm
_________________	.... cm
__________________________________	.... cm

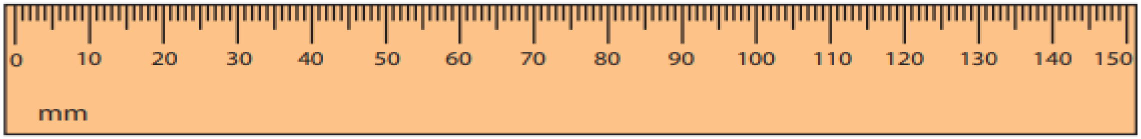
- Measure the length of objects. [ ]

<u>Measure the length of each object</u>

Object	Measure	Measure
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm
	…… cm, ….. mm	………. mm

- Measure the length of objects. [ ]

Measure the length of each line:



Object	Measure
	.... mm
	.... mm
	.... mm
	.... mm
	.... mm
	.... mm
	.... mm

Complete:

5 cm = ... mm

8 cm = ... mm

2 cm = ... mm

12 cm = ... mm

6 cm = ... mm

10 cm = ... mm

30 mm = ... cm

60 mm = ... cm

90 mm = ... cm

140 mm = ... cm

280 mm = ... cm

320 mm = ... cm

4 cm = ... mm

50 mm = ... cm

10 cm = ... mm

60 mm = ... cm

1 cm = ... mm

500 mm = ... cm

70 mm = ... cm

180 mm = ... cm

17 cm = ... mm

19 cm = ... mm

100 mm = ... cm

130 mm = ... cm

- Convert the units of measuring the length. [ ]

Lesson 2 Measuring time

Measuring time (minute "m" and hour "h")

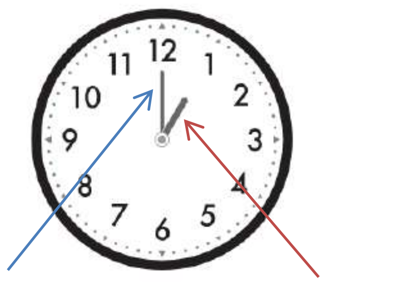
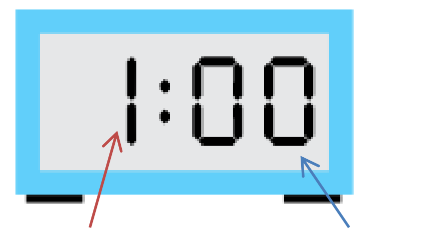
Hour and minute are units to measure the time.

Minute (m): used to measure the short time.

Hour (h): used to measure the long time.



1 hour = 60 minutes

Analog clock	Digital clock
 It's 1 o'clock	 It's 1 o'clock

Circle each analog clock:













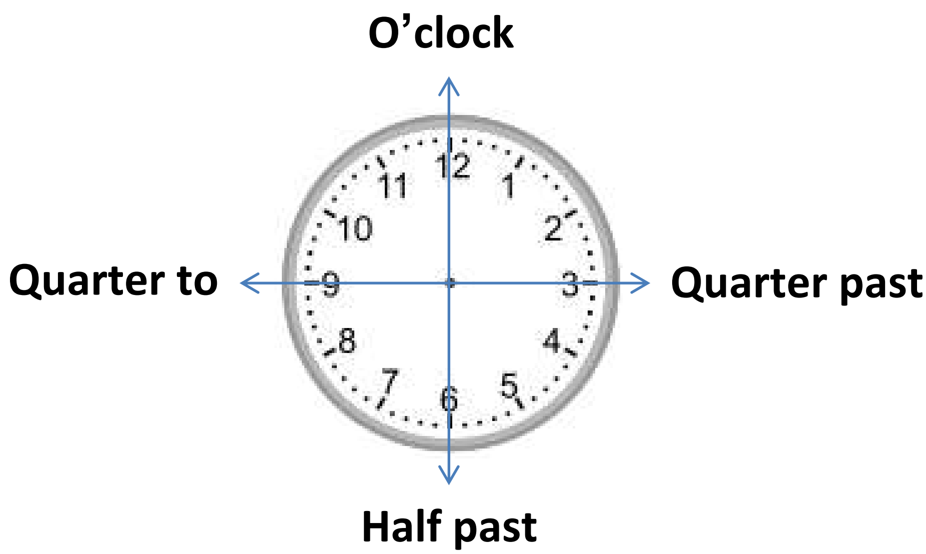


- Identify the units of measure the time. [ ]

Day = 24 hours

12 A.M — 12 P.M

Each 1 hour = 60 minutes



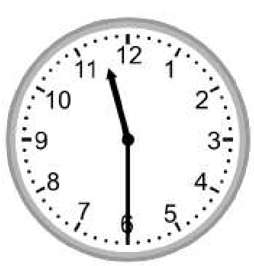
Read as:



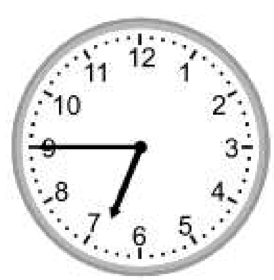
It is 4 O'clock



It is Quarter past 8

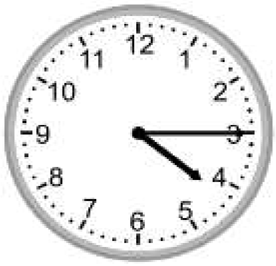


It is Half past 11

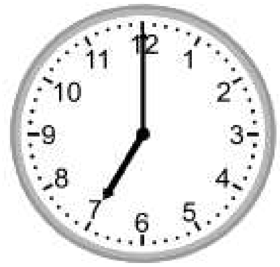


It is Quarter to 7

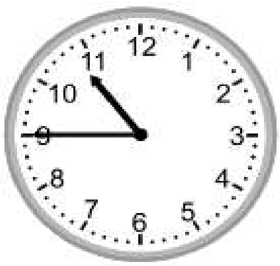
Read and write the time:



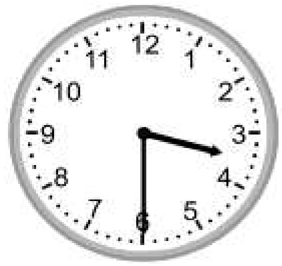
It's ....



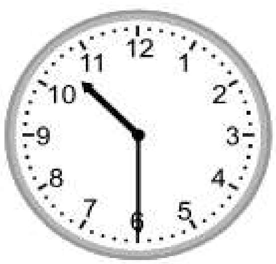
It's ....



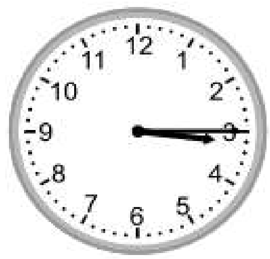
It's ....



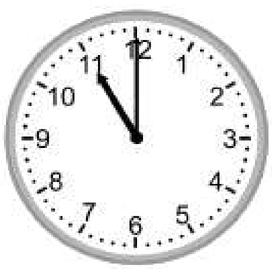
It's ....



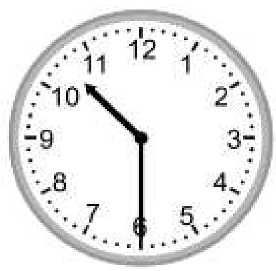
It's ....



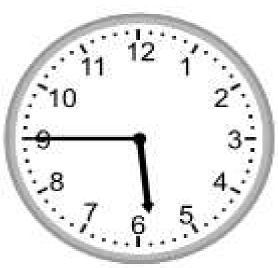
It's ....



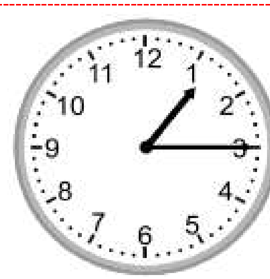
It's ....



It's ....

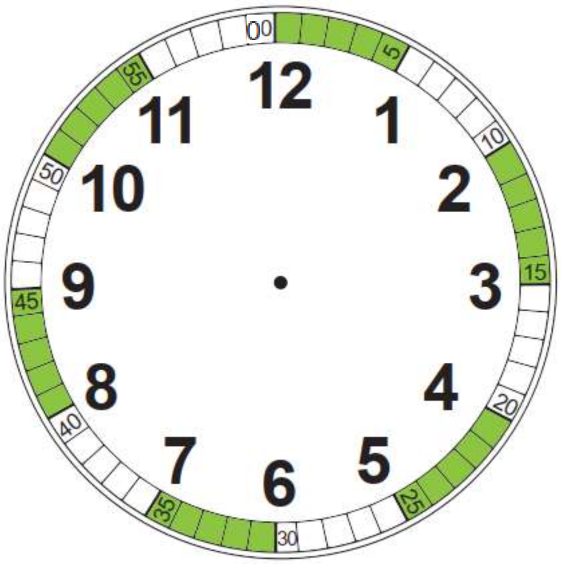


It's ....



It's ....

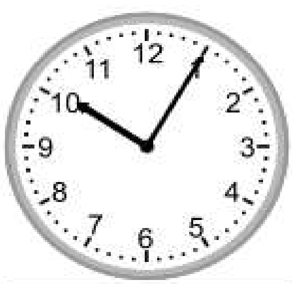
- **Read and write time to the hour, half hour, quarter hour.** [ ]



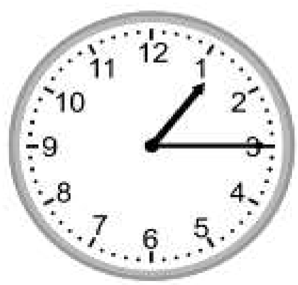
Hour Minutes

_______ : _______

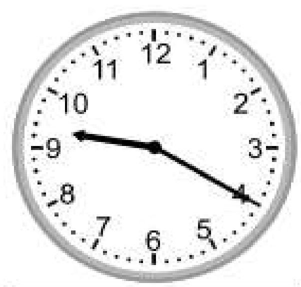
Write as:



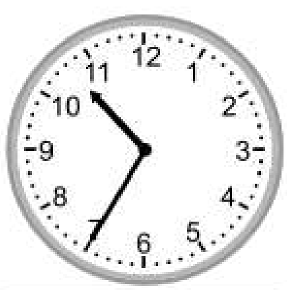
10:05



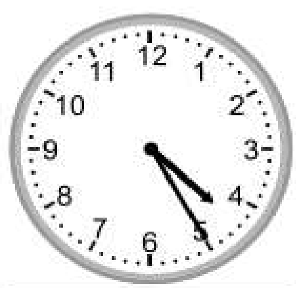
1:15



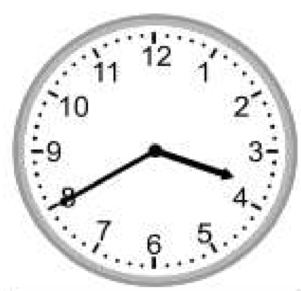
9:20



10:35



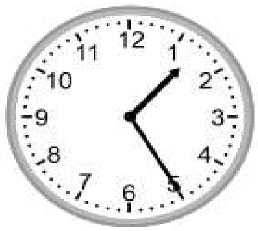
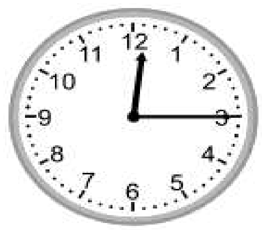
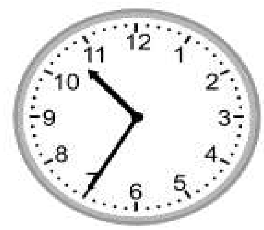
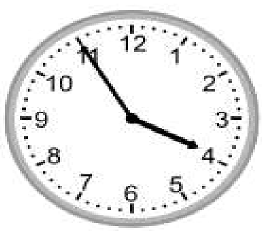
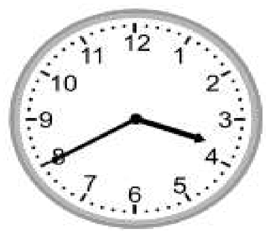
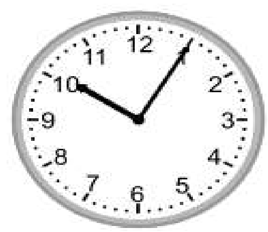
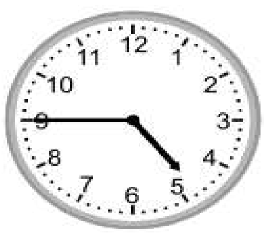
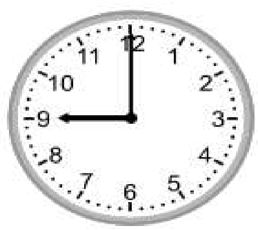
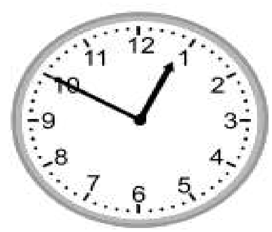
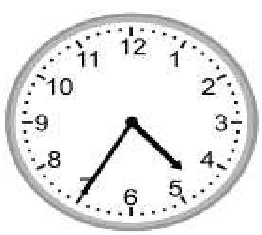
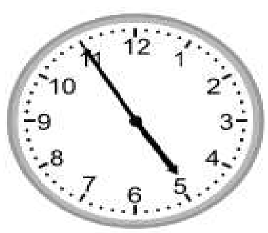
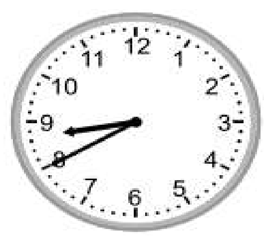
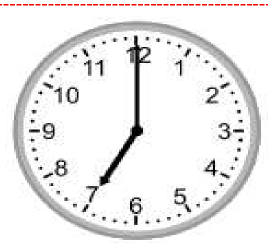
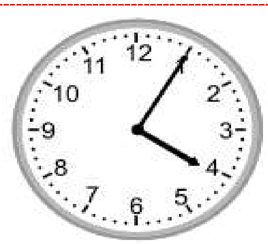
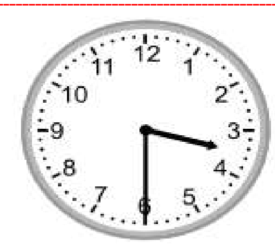
4:25



3:40

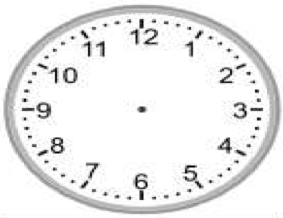
- **Match analog times to digital times.** [ ]

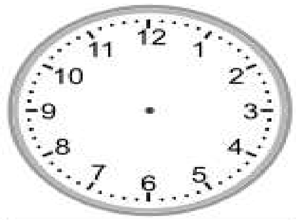
Complete:

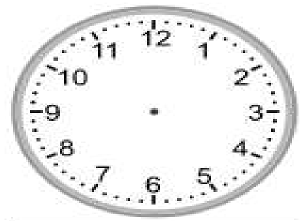
 __ __ : __ __	 __ __ : __ __	 __ __ : __ __
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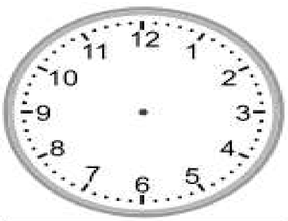
- **Match analog times to digital times** [ ]

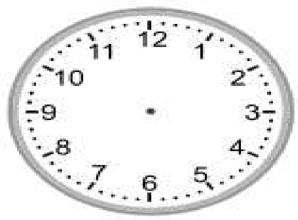
Complete:

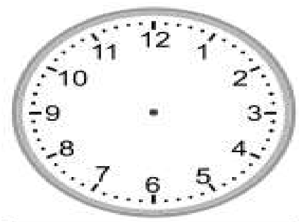

2:05

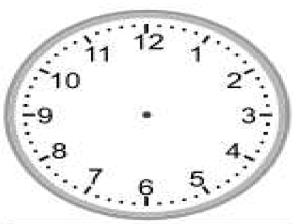

9:20

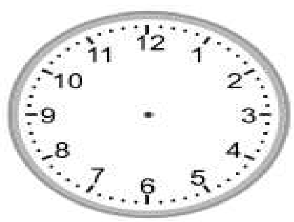

3:25

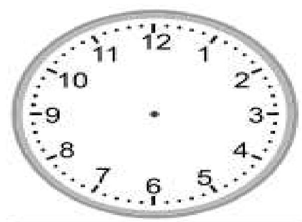

11:00

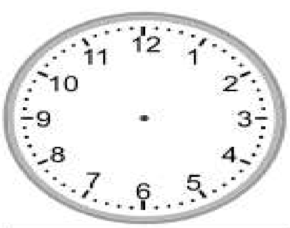

2:55

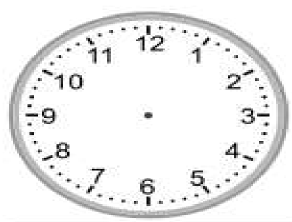

2:50

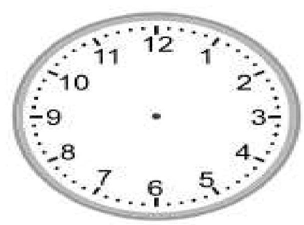

12:45

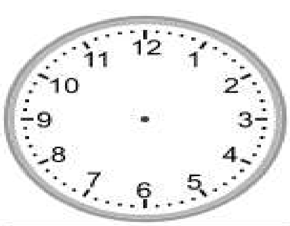

6:25

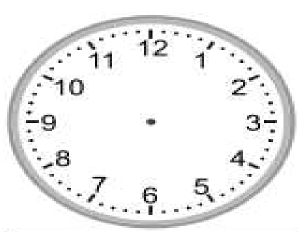

5:40

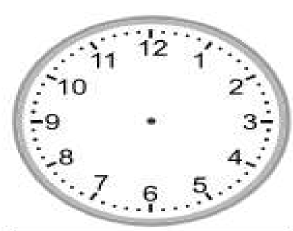

8:35


1:30


1:15


6:10


4:55


5:00

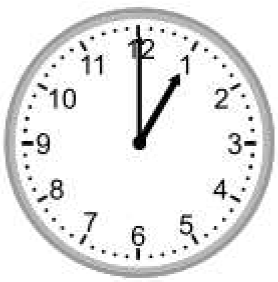
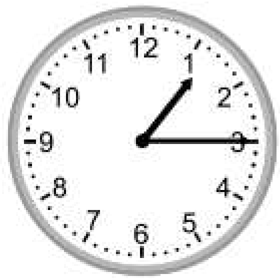
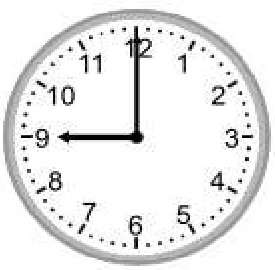
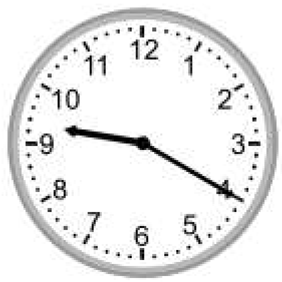
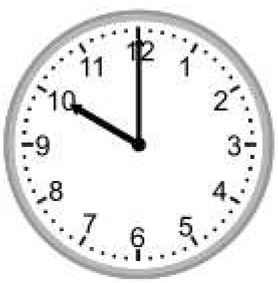
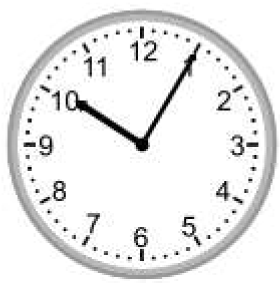
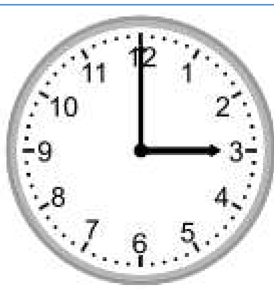
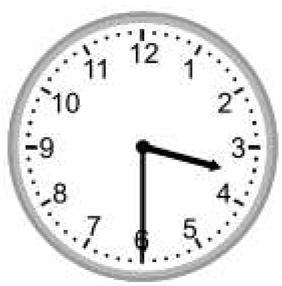
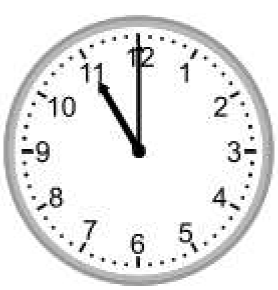
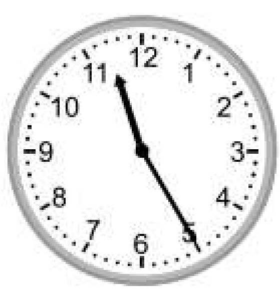
- Show the time by drawing hands of analog clock. [ ]



Elapsed time:

The following table shows the time that many students need to study math.

How long did each student take to study?

Start time	End time	Elapsed time
		……… Minutes
		……… Minutes
		……… Minutes
		……… Minutes
		……… Minutes

- Write the elapsed time. [ ]

Lesson 3 **MEASURING CAPACITY**

Liter and Millimeter

L and ml are units to measure the liquid.

Liter (L): used to measure large amounts.

Milliliter (ml): used to measure small amounts.



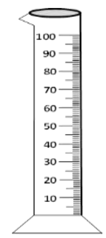
1 Liter (L) = 1000 Milliliter (mL)

× 1000

L → mL

Graduated cylinder

Is used to measure the volume of liquid.



Choose the <u>suitable unit</u> to measure each object:



mL L



mL L



mL L



mL L



mL L



mL L



mL L



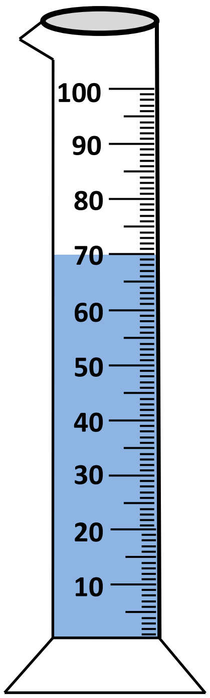
mL L



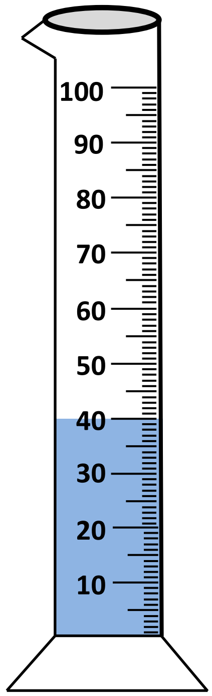
mL L

- Identify units of measuring capacity. [ ]
- Estimate the suitable unit to measure the capacity. [ ]

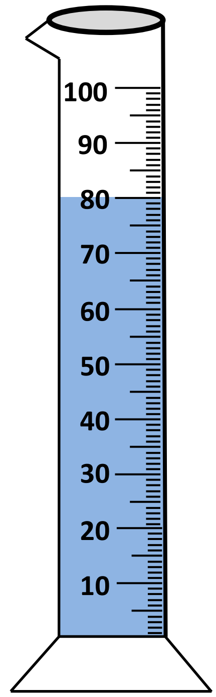
How many ml are there?



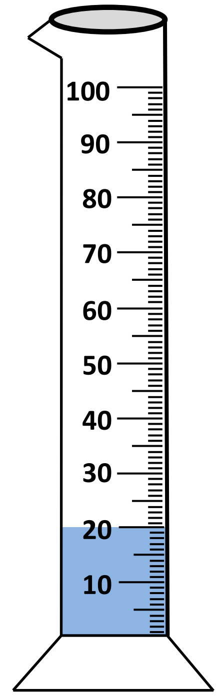
.... ml



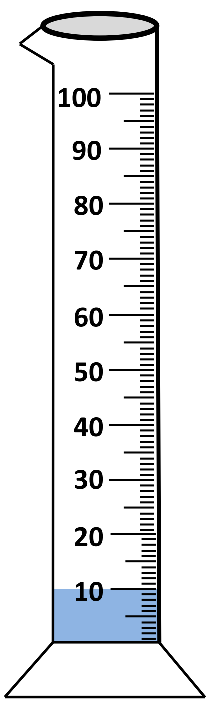
.... ml



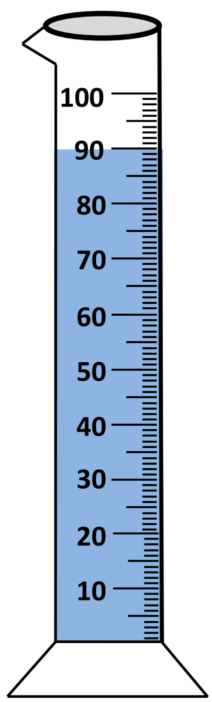
.... ml



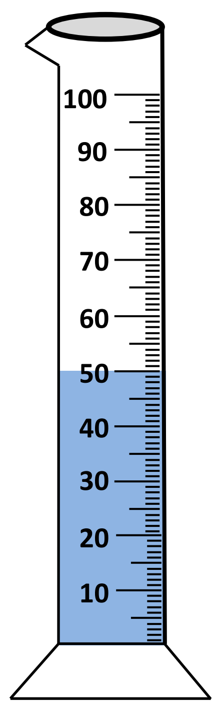
.... ml



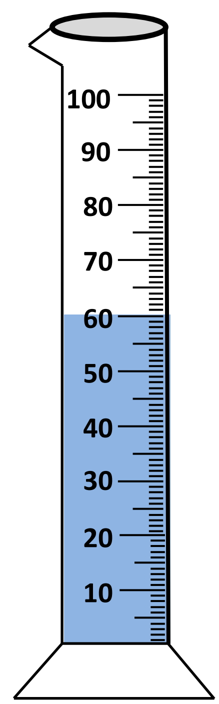
.... ml



.... ml



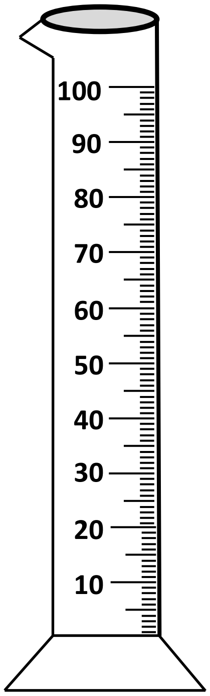
.... ml



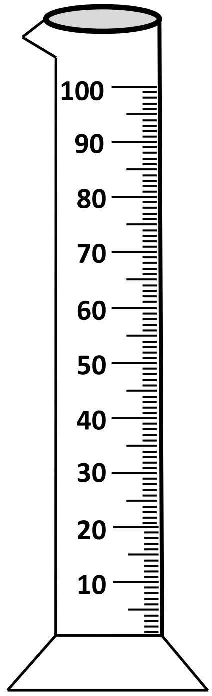
.... ml

- Measure the capacity of the graduated cylinder. [ ]

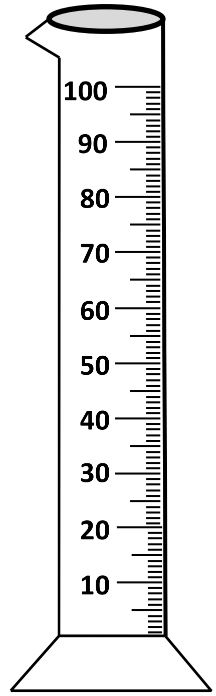
Color to reach the required measure:



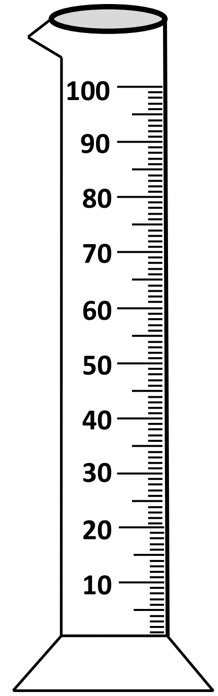
30 ml



70 ml



100 ml



20 ml

Complete:

3 L = ... mL — 7 L = ... mL — 5 L = ... mL

12 L = ... mL — 1 L = ... mL — 10 L = ... mL

5,000 mL = ... L — 9,000 mL = ... L — 4,000 mL = ... L

11,000 mL = ... L — 87,000 mL = ... L — 10,000 mL = ... L

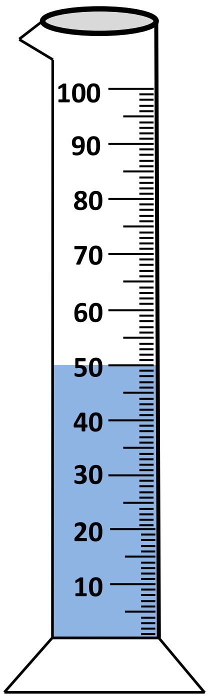
4 L = ... mL — 2,000 mL = ... L — 3,000 mL = ... L

6,000 mL = ... L — 8 L = ... mL — 30 L = ... mL

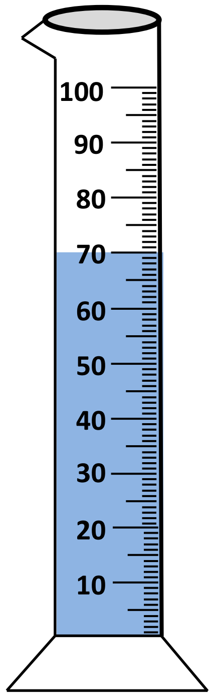
27,000 mL = ... L — 80,000 mL = ... L — 2 L = ... mL

17 L = ... mL — 123,000 mL = ... L — 138 L = ... mL

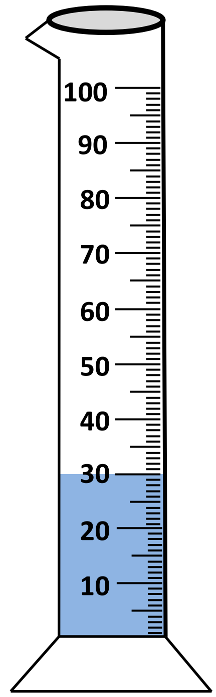
How many ml are there?



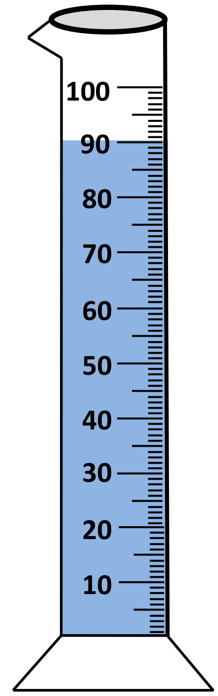
……… ml



……… ml



……… ml

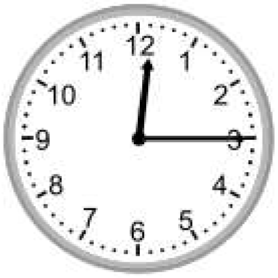


……… ml

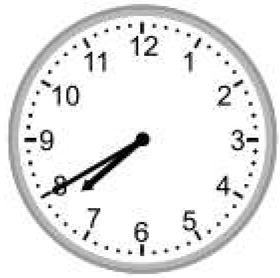
Measure the length of each line:

Object	Measure
	………. mm
	………. mm
	………. mm
	………. mm
	………. mm
	………. mm

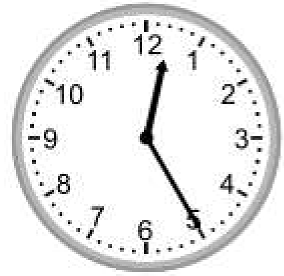
Complete:



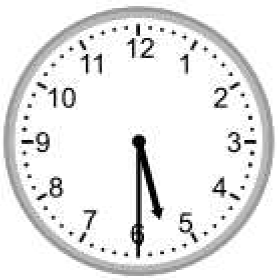
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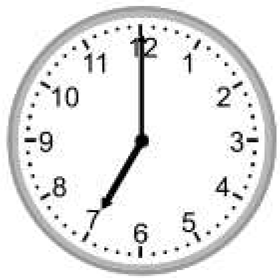
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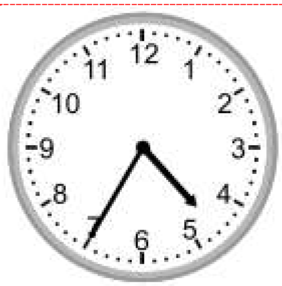
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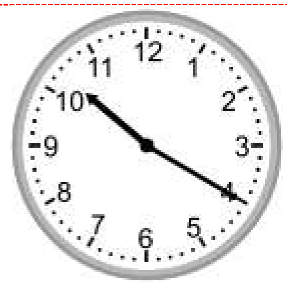
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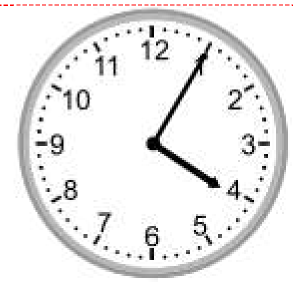
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